#### DCCUMENT RESUME

ED 033 77C RC 003 428

AUTHOR Murphy, George M.; And Others
TITLE Northeastern Educational Placement Guide
in Reading, Arithmetic and Spelling (Local

In Reading, Arithmetic and Spelling (Local Norms 1968-1971) as Measured by the Wide Range Achievement Test, 1965 Revision.

INSTITUTION Cooperative Educational Services Center,

Winsted, Conn.; Winchester Ecard of

Education, Winsted, Conn.

Spons Agency Connecticut State Board of Education,

Hartford.; Office cf Education (DHEW),

Washington, D.C.

Pub Cate 68
Note 81p.

Available from Correrative Educational Services Center,

Fox 528, Spencer Hill, Winsted,

Connecticut 06098 (\$1.50).

EDRS Price EDRS Frice MF-\$0.50 HC-\$4.15

Descriptors \*Achievement Tests, \*Educational Testing,

\*Grade Equivalent Scales, \*Group Norms, Reading Tests, Rural Areas, \*Standardized Tests, Statistical Data, Test Feliability

Identifiers Connecticut, Wide Range Achievement Test,

WRAT

#### Abstract

The Wide Range Achievement Test (WRAT) yields raw sccres, standard scores, and percentile sccres for reading skill, spelling skill, and arithmetic computational skill, and is applicable for determining student competence in these areas for pre-kindergarten through college level. Because national norms on the 1965 revised WRAT are not, however, completely relevant for lccal usage, rural and semi-urban Connecticut lccal beginning, middle, and end of year norms have been compiled and are presented in this document, for grades one through twelve. Sampling for the establishment of these norms was accomplished by assigning a number to every child in each grade (1 through 12) in 17 public and private schools in a 6-town region of Northwestern Connecticut. Subsequently, 35 numbers were randomly selected for each grade for each of the 3 sample groups (beginning, middle, and and of year), resulting in 36 separate sets of randomly selected numbers or a total sample in excess of 1,200 students. Included in this report are local percentile equivalents to national norm grade scores, as well as tables which report the mean and standard deviation for the sample for all 3 subject areas on the WRAT, by grade, as well as the average and expected deviations or grade span. A related document is RC 003 427. (EV)

NORTHEASTERN EDUCATIONAL PLACEMENT GUIDE IN READING, ARITHMETIC & SPELLING (LOCAL NORMS 1968-1971) AS MEASURED BY THE WIDE RANGE ACHIEVEMENT TEST

1965 REVISION

## U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING LT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

NORTHEASTERN EDUCATIONAL PLACEMENT GUIDE
IN READING, ARITHMETIC & SPELLING
(LOCAL NORMS 1968-1971) AS MEASURED
BY THE WIDE RANGE ACHIEVEMENT TEST
1965 REVISION

Submitted By

WINCHESTER BOARD OF EDUCATION
(GRANTEE)
c/o C. E. S. C.
Winsted, Connecticut 06098



RURAL SEMI-URBAN CONNECTICUT LOCAL NORMS

BEGINNING - MIDDLE - END OF YEAR

For The

WIDE RANGE ACHIEVEMENT TEST

1965 Revision

Ву

GEORGE M. MURPHY, PRINCIPAL INVESTIGATOR
DIRECTOR
COOPERATIVE EDUCATIONAL SERVICES CENTER

JOSEPH E. DAIGLE-BERNARD LAPP-GEORGE J. URBAN STAFF MEMBERS COOPERATIVE EDUCATIONAL SERVICES CENTER

The collection and analysis of the data in this report was made possible by grants from the U.S. Office of Education under P.L. 89-10, I, & III (Pace); and Connecticut P.A. 523 (1965 revision of the General Statutes). All material contained herein is the sole responsibility of the author and does not reflect the opinions or positions of any other agencies or persons.

Published by

Cooperative Educational Services Center
P. O. Box 528
Winsted, Connecticut 06098

Copyright reserved for U. S. Office of Education, 1968 Reproduction cost - \$1.50 per copy

"PERMISSION TO REPRODUCE THIS COPYRIGHTED MATERIAL HAS BEEN GRANTED BY George M. Murah

TO ERIC AND ORGANIZATIONS OPERATING UNDER AGREEMENTS WITH THE U.S. OFFICE OF EDUCATION. FURTHER REPRODUCTION OUTSIDE THE ERIC SYSTEM REQUIRES PERMISSION OF THE COPYRIGHT OWNER."



## TABLE OF CONTENTS

																																Page
Intro	ductio	n.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
Origi	n Of T	he	Da	ta	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2
Use O	f The	Tab	le	s				•		•	•	•	•	•	•	•		•	•		•		•	•	•	•	•	•			•	3
	Local	Per	ce	nt	il	.es	3.					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3
	Means	And	D	ev	ia	ti	Lor	18	Ta	ъ	les	3.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Beain	ning-Y	ear/	•	2	No	חם	ns		•	•	•	•	•	•			•			•	•	•		•	•			•	•	•	•	Вi
	Beginn	ninc	-Y	ea	ır	St	at	is	st:	ic	3 (	(.2	2)	•	•	•	•	•	•	e	•	•	•	•	•	•	•	•	•	•	•	Bii
	Grade	1.	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	B-1
	Grade	2.	•	•								•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	B-2
	Grade	3.		_	•	•	•							•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	B <b>-3</b>
	Grade	4.	•	•	•	•	•	•	•	•	_						•				•		•	•	•	•	•	•	•	•	•	B-4
	Grade	5.	•	•	•	•	•		•	•	•	•	•						•		•		•		•	•	٠	•	•	•	•	B <b>-</b> 6
	Grade	6.	•	•	•	•	•		•	•	•	•	•	•	•		•	•		•	•		•	•	•	•	•	•	•	•	•	B-7
	Grade	7.	•	•	•	•	•	•	•		•	_	•	•	•		•			•		•	•	•	•	•	•	•	•	•	•	B <b>-9</b>
	Grade	Ä.	•	•	•	•	•	•	•	•	•	•		•				•		•	•	•	•	•	•	•	•	•	•	•	•	B <b>-</b> 11
	Grade	9.	•	_	•	•	•	•	•	•	•		•	•	•	•	٠				,	•	•	•	•	•	•	•	•	•	•	B-13
	Grade	10	•	•	•	•	•	•	•	•		•	•	•	•									•	•	•	•	•	•	•	•	B <b>-</b> 15
	Grade	11	•	•	•	•	•	•	•	•	•	•	•	•	•	_	•										•		•	•	•	B-17
	Grade	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	B-19
Mid-V	ear .4	4 Nic	) T (T	10			_	_	_		_	_	_		_			•		•		•	•	•	•	•	•	•	•	•		M <b>-</b> 1
11110-1	Mid-Ye	7 W	St	.o ∶a1	Lis	at.	ics	2	(	4)	•	•	•	•	•	•	•											•		•	•	M-2
	Grade								•	•		•																•				M-3
	Grade		-									•																				M-5
	Grade																															M <b>-</b> 6
	Grade																															M-8
	Grade																															M-10
	Grade																															M-12
	Grade																															M-13
	Grade																															M-15
	Grade																															M-17
	Grade																															M-19
	Grade																															M-21
																																M-23
	Grade	12	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	,·, – 2 U



## TABLE OF CONTENTS (continued)

																																Paye
End-	Year .7	7 N	loi	: ms	3.	•	•	•			•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•	E -1
	End-Ye																															E -2
	Grade	1	•		•		•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	E-3
	Grade																															
	Grade																															E <b>-</b> 5
	Grade																															E <b>-</b> 7
	Grade																															
	Grade																															E-11
	Grade																															
	Grade																															
	Grade																															E-17
	Grade																															
	Grade																															_ , _
	Grade																															E-23
	Grade	12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	£-2J
Δηηρ	ndix .		_	_	_	_	_	_	_	_	_	_							_			_	_				_					A -1
uhhe	Geogra																															A -2
	_	•																		•	•	•	•	•	•	•	•	•	•	•	•	7-2
	Fundi																															A -2
	Six																						•	•	•	•	•	•	•	•	•	M - Z
	Distr:												•		,	•																^ =
	The	51	X		DWI	ns	Ľ	ΟV	er	ed	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	A-3



#### INTRODUCTION

While it is true that the material in this study has been extracted from an area in Northwestern Connecticut, the sample size and population characteristics are such that this author feels that the results could quite conceivably be generalized to most rural semi-urban New England and probably the Atlantic States as well. It has long been felt that national norms are not completely relevant for local usage, the Eastern states especially being a culturally encapsulated region with a background of almost three hundred years of civilized accomplishment. Local students consistently tend to score higher on verbal skills and lower on mathematics usage when compared to the "average" student across the country. While publication of such spurious accomplishments tends to make the local superintendent of schools look good at test reporting time, they serve little purpose for the grass roots educator, the local guidance counselor or the classroom teacher. He needs to know exactly how Johnny compares with Jimmy in some areas, and with Susie in others, especially if Johnny is new to the classroom - and the data from his previous school reports different testing materials and scoring methods from that used in his new placement.

The 1965 edition of the <u>Wide Range Achievement Test</u>, (WRAT), is an instrument which could easily be used by any counselor or teacher with a modicum of training, ranges from pre-kindergarten to college graduation on one double fold piece of paper, and yields raw scores, standard scores and percentile scores in the areas of reading, spelling, and arithmetic computation, (three critical factors which must be considered in any academic placement). Unfortunately, here too the national norms for the WRAT are too high in some places, and do not reveal a true picture in others. How much simpler it would have been if a local norms table could be available for the use of the Wide Range Achievement Test!

It is precisely for the above reasons that the research presented in this publication took place: that the local counselor or teacher might have a wide ranged instrument which was easy to use and score, would take the major critical factors into consideration, and would materially assist in the placement of students for instructional purposes ~ thus saving a great deal of time and frustration on the part of both the local educator and the student.



#### ORIGIN OF THE DATA

Every child in each grade in both public and private schools, grades one through grades twelve in the seventeen schools of a six town region in Northwestern Connecticut was assigned a number. The numbers ran a serial sequence, from OO1-up, for each grade. Thirty-five (35), numbers were chosen randomly, from One Million Random Digits, (Rand Corporation), for each grade, for each sample, beginning - middle and end of year, producing thirty-six, (36), separate sets of randomly chosen numbers. Referred children who had begun to receive service from the Cooperative Educational Services Center, (CESC), were not included in the sample, nor were children tested more than once, to prevent contamination of the data due to the child's experience with the instrument, (Total N-1200):

The children corresponding to the chosen numbers for their grade were tested on the WRAT at the appropriate point for their particular sample, by the psychological and guidance services and learning resources sub-sections of the CESC. Said staff members scored and checked each other's results, and distribution charts were made. Along with the translation of national normative data into local New England regional norms, an item-analysis for each example on the mathematical sub-test was carried out for all three time samples, the beginning, middle and end of year periods, (reported in another publication).

Cumulative percentile curves were graphed. The resultant tables are direct read-outs of said graphs at the .2, .4, and .7 mark in the school year for each grade respectively.

#### SPECIAL CONDITIONS OF DESIGN

Since the 1965 WRAT is now presented in two levels, as a part of the research design Level I was administered up through grade five, and Level II was administered from grade six and beyond, for it was felt that the appropriate age level break should happen somewhere between the end of the fifth grade and the beginning of the sixth grade if the children were progressing more or less normally in school. Admittedly this is not consistent with the original standardization of the 1965 WRAT, but it was felt to be more useful for local purposes, since the item of interest was the achievement by grade, within the area schools, rather than the achievement of the individual child as an individual.

In the following pages can be found local percentile equivalents to national norm grade scores for each grade, one through twelve, as well as tables which report the mean (X) and standard deviations (s) for the sample for all three subject areas on the WRAT, by grade, as well as the average and expected deviations, or grade span  $(Gs)^*$ , for reading and spelling, which is not specifically reported in the WRAT manual.

\* Grade span (Gs) is the distance, in equivalent school years, between the basal score (the score below which all items are considered as passed), and the maximal score (the score above which all items are failed). This researcher has found the measure of Gs to be of valuable assistance in many individual cases. An extremely wide span, more than plus or minus one sGs may be indicative of some problem areas, while an extremely narrow span may have other hints for the teacher.



#### USE OF THE TABLES

#### LOCAL PERCENTILES

Score the test as directed by the WRAT manual. Compute the testing date and grade scores in each area, as shown in the WRAT manual. In the table below, go to the column headed by the appropriate testing month of the school year, as computed above, and adjust each received grade score by the constant in the table, adding or subtracting as indicated.

	•0	.1	.2	<i>。</i> 3	• 4	.5	۰6	.7	.8	.9
Beginning Norms	+0.2	+0.1	+0.0	-0.1	-0.2					
Mid-Year Norms			+0.2_	<u>+0.1</u>	0.0	-0.1	-0.2			
End-Year Norms						+0.2	+0.1	0.0	-0.1	-0.2

Enter the appropriate grade level table with the adjusted scores, and read the appropriate local percentile equivalents.

#### MEANS AND DEVIATION TABLES

Adjusted scores should not be used with the means and deviations tables. The tables indicate only the situation that existed at that time, and can serve only as a rough comparison, except in those cases tested during the comparable month (.2, .4 or .7) that said tables were derived.



#### BEGINNING-YEAR STATISTICS (.2)

#### WIDE RANGE ACHIEVEMENT TEST

#### RANDOM SAMPLE

GRADE	READ	ING			SPELLI	NG		ı <b>t</b>	AR I	THMETIC
LEVEL	X s	XGs sGs		X	S	XGs	sGs		<u>x</u>	<u>s</u>
1	.84 .47	<b>.83 .</b> 55		1.25	.275	•2	.373		1.39	.467
2	3.17 .97	2.00 1.54		2.53	•69	1.22	• <b>9</b> 5		2.64	.453
3	4.36 1.28	2.75 2.03		3.62	.80	1.50	1.13		3.59	•60
4	5 <b>.3</b> 5 2 <b>.</b> 14	<b>3.3</b> 8 2.65		4.24	1.16	1.74	1.28		4.05	<b>.</b> 61
5	6.60 1.94	<b>3.</b> 67 2 <b>.</b> 98		5.59	1.29	2.09	1.36		4.83	.74
6	7.48 2.26	5.01 2.05		5.96	1.46	2.76	1.61		5.66	1.21
7	9.32 3.74	6.25 <b>3.</b> 68		7.05	2.04	3.62	2.38		6,88	2.11
8	9.98 4.01	6.58 <b>3.</b> 71		8.09	2.46	4.45	1.83		7.42	1.64
9	10.64 3.23	5.27 3.47		8.11	2.27	3.85	1.90		7.65	2.39
10	12.43 3.53	5,56 <b>3.</b> 68		10.08	2.57	4.56	2.29		8.55	1.89
11	12.51 2.57	4.18 3.84		9.65	2.31	4.44	2.27		9.09	2.22
12	13.93 3.07	3.92 3.29		10.29	2.33	6.49	3.04		8 <b>.9</b> 5	2.58
		ľ	'					I I		ĺ

X: Mean (Average Score)

s : Standard Deviation

XGs : Mean Grade Span (Average Grade Span)

sGs : Standard Deviation of Grade Span

For example, the average 3rd grader received a reading score of 4.3, and measured about 2.7 years between the basal and maximal score on Reading. Sixty-seven percent of the 3rd graders had reading scores between 3.0 and 6.6. (Use the same approach to analyse the Spelling scores and Arithmetic scores.)



#### WRAT - RANDOM SAMPLING

#### Local Percentiles

## GRADE I

REAL	DING	SPELL	ING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>
2.8-2.6°	99	2.2-2.1	99	2.4	99
2.72.1	98	2.0-1.9	98	2.3	98
2.0-1.8	<del>9</del> 7	1.8-1.7	97	2.2	<b>9</b> 6
1.7-1.6	<del>9</del> 6	1.6	<b>9</b> 6	2.1	93
1.5	94	1.5	<b>9</b> 3	2.0	91
1.4	<b>9</b> 2	1.4	90	1.9	90
1.3	90	1.3	80	1.8	83
1.2	74	1.2	50	1.7	7 <b>9</b>
1.1	61	1.1	13	1.6	73
1.0	46	1.0	12	1.5	6 <b>9</b>
K <b>.</b> 9	38	K.9	11	1.4	63
K.B	31	K.8	10	1.3	53
K <b>.7</b>	23	K.7	7	1.2	43
K.6	20	K.6	3	1.1	35
K.5	16	K.5-K.4	2	1.0	26
K.4	14	K.3-K.2	1	K.9	20
K.3	10			K.B	18
K.2	7			K.7	16
K.1	3			K.6	12
K.0	1			K.5	6
				K.4	5
				K.3	3
				K.2	2 1
				K.1	1



## WRAT - RANDOM SAMPLING

#### Local Percentiles

READ	TNG	SPELL	ING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>
5.1	99	4.5	99	3 <b>.9</b>	99
5.0	<b>9</b> 7	4.4	<b>9</b> 8	3.8-3.7	<b>9</b> 8
4.9	94	4.3	<b>9</b> 7	3.6	<b>9</b> 7
4.8	91	4.2 - 4.1	<b>9</b> 6	<b>3.</b> 5	<b>9</b> 6
4.7	<del>9</del> 0	4,0 - 3 <b>,9</b>	<b>9</b> 5	3.4	<b>9</b> 5
4.6	8 <b>9</b>	3.8 - 3.7	94	3.3	<b>9</b> 2
4.5	88	3.6	<b>9</b> 2	3.2	91
4.4	86	3.5	<b>9</b> 0	3.1	8 <b>9</b>
4.3	84	3.4	88	3.0	88
4.2	82	3 <b>.</b> 3	87	2.9	82
4.1	80	<b>3.</b> 2	86	2.8	77
4.0	7 <b>9</b>	3.1	85	2.7	70
3 <b>.9</b>	77	3.0	82	2.6	65
3.8	75	2 <b>.9</b>	78	2.5	42
3.7	73	2.8	74	2.4	40
3.6	71	2.7	70	2.3	17
<b>3.5</b> ;	68	2.6	66	2.2	10
3.4	64	2.5	62	2.1	5
3.3	60	2.4	55	2.0	4
3.2	5 <b>9</b>	2.3	48	1 <b>.9-1.</b> 8	3
3.1	58	2.2	40	1.7-1.6	2
3.0	57	2.1	30	1.5-1.3	1
2 <b>.9</b>	51	2.0	23		
2.8	47	1.9	14		
2.7	42	1.8	11		
2.6	37	1.7	8		
2.5	33	1.6	5		
2,4	28	1.5	4		
2.3	23	1.4	3		
2.2	18	1.3			
2.1	14	1.2	2 1		
2.0	12				
1.9	11				
1.8	10				
1.7					
1.6	<b>9</b> 7				
1.5	6				
1.4	5				
1.3	3				
1.2	2				
1.1	ī				



## WRAT - RANDOM SAMPLING

## Local Percentiles

REA	DING		SPEL	LING		ARITH	METIC
	Percentile	Gr.	Score		Gr.	Score	Percentile
7.2	99		5,5	99		5.5	99
7.1	98		5.4	97		5.4	98
7.0	97		5.3	<del>9</del> 5		5 <b>.3</b>	97
6 <b>.9</b>	<b>9</b> 6		5.2	93		5.2	<b>9</b> 6
6.8	95		5.1	92	5.1	<b>-4.9</b>	95
6.7	94		5.0	91	4.8	3-4.6	94
6.6	93		4.9	90		5-4.3	93
6.5-6.4	92		4.8	89		4.2	90
6.3-6.2	91		4.7	88		4.1	87
6 <b>.1-6.0</b>	90		4.6	87		4.0	84
5.9	88		4.5	85		3.9	80
5.8	86		4.4	84		3.8	73
5.7	84		4.3	82		3.7	68
5.6	82		4.2	81		<b>3.</b> 6	6 <b>0</b>
5.5	80		4.1	79		3.5	52
5.4	78		4.0	78		3.4	<b>4</b> 6
5.3	77		3.9	74		3.3	<b>3</b> 5
5.2	<b>7</b> 6		3.8	71		3.2	25
5.1	75		3.7	68		3.1	18
5.0	73		<b>3.</b> 6	6 <b>0</b>		3.0	14
4.9	70		3.5	51		2.9	10
4.8	6 <b>8</b>		3.4	43		2.8	
4.7	6 <b>3</b>		3.3	40		2.7	5
<b>4.</b> 6	58		3.2	37		2.6	6 5 <b>4</b>
4.5	5 <b>3</b>		3.1	34		2.5	3
4.4	52		3.0	29	2.	4-2.3	2
4.3	51		2.9	24	-•	2.2	1
4.2	50		2.8	18		- • -	·
4.1	48		2.7	16			
4.0	45		2.6	13			
3.9	43		2.5	11			
3.8	39		2.4				
3.7	<b>3</b> 5		2.3	9 7			
<b>3.</b> 6	31		2.2	4		READING	(Cont.)
<b>3.</b> 5	30		2.1	2	Gra	Score	Percentile
3.4	29		2.0	1			
3.3	28		- • •	·		2.5	6
3.2	24					2.4	
3.1	21					2.3	3
3.0	18					2.2	2
2.9	15					2.1	5 3 2 1
2.8	12					- <del></del> -	••
2.7							
2.6	9 7	7					

## WRAT - RANDOM SAMPLING

## Local Percentiles

RFA	DING	SPEL	LING	ARITHM	ETIC
	Percentile		Percentile		Percentile
			0.0	5.1	99
13.4-12.6	99	6.5-6.4	99	5.0	96
12.5-11.6	98	6 <b>.3</b>	98 96	4.9	9 <b>3</b>
11.5-10.6	97	6 <b>.2</b>	96	4.8	9 <b>0</b>
10.5- 9.4	96 25	6.1	95 04	4.7	8 <b>7</b>
9.3- 9.0	95	6 <b>.0</b>	94	<b>4.</b> <i>(</i>	84
8.9- 8.8	94	5.9	9 <b>3</b>	4.5	£1
8.7- 8.4	93	5.8	91 80	4.4	<b>7</b> 5
8.3- 8.2	92	5.7	89 97	4.3	73 71
8.1	91	<b>5.</b> 6	87 25	4.2	66
8.0- 7.9	90	5.5	85 87		<b>54</b>
7.8	89	5.4	8 <b>3</b>	4.1	4 <b>3</b>
7.7- 7.6	88	5 <b>.3</b>	81 70	4.0	33
7.5- 7.4	87	5.2	78	<b>3.</b> 9	27
7.3	86	5.1	75 70	<b>3.</b> 8	
7.2	84	5.0	72	<b>3.</b> 7	22 1.9
7.1	8 <b>3</b>	4.9	71	<b>3.</b> 6	18
7.0	8 <b>2</b>	4.8	70	3.5	17
6.9	81	4.7	6 <b>9</b>	3.4	16 15
6.8	8 <b>0</b>	4.6	6 <b>4</b>	3.3	15 42
6 <b>.7-</b> 6.6	<b>7</b> 9	4.5	59 • •	3.2	12
6.5- 6.4	<b>7</b> 8	4.4	54	3.1	9
6 <b>.3</b>	<b>7</b> 6	4.3	52	3.0	6
6 <b>.2</b>	75	4.2	50	2.9-2.8	5
6.1	74	4.1	48	2.7-2.6	4
6 <b>.0</b>	73	4.0	43	2.5-2.4	3
5.9	72	<b>3.</b> 9	<b>3</b> 8	2.3	2
5.8	70	<b>3.</b> 8	<b>33</b>	2.2-2.1	1
5.7	6 <b>7</b>	3.7	31		
<b>5.</b> 6	6 <b>5</b>	<b>3.</b> 6	30		
5.5	<b>62</b>	<b>3.</b> 5	28		
5.4		3.4	27		
5 <b>.3</b>		3.3	25		
5.2	55	3.2	24		
5.1	<b>53</b>	3.1	22		
5.0		3.0	20		
4.9	48	2.9	18		
4.8	<b>4</b> 6	<b>2.</b> 8	16		
4.7	44	2.7	14		
4.6	42	<b>2.</b> 6	11		
4.5		2,5	9		
4.4		2.4	7		
4.3	<b>3</b> 6	2.3	5		
4.2	34	2.2	4		
4.1	32	2.1-2.0	3		
4.0	30	1.9-1.7	2		
(Continu	ed on next page)	1.6-1.3	1		

ARITHMETIC

Gr. Score Percentile

#### BEGINNING-YEAR .2 NORMS

#### WRAT - RANDOM SAMPLING

#### Local Percentiles

#### GRADE 4 (Cont.)

SPELLING

Gr. Score Percentile

REA	DING
Gr. Score	Percentile
3.9	27
<b>3.</b> 8	<b>2</b> 6
3.7	24
<b>3.</b> 6	23
<b>3.</b> 5	21
3.4	20
3.3	18
3.2	17
3.1	16
3.0	14
2.9	13
2.8	11
2.7	10
<b>2.</b> 6	8
2.5	7
2.4	6
2.3	4
2.2	3
2.1	1



#### WRAT - RANDOM SAMPLING

#### Local Percentiles

## <u>Grade 5</u>

READ	ING	SPELL	_ING	_ ARITHM	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
12.9-12.1	99	13.9-12.3	99	6.5- 6.4	99
12.0-11.2	98	12.2-10.7	98	6 <b>.3</b>	98
11.1-10.2	97	10.6- 8.8	97	6.2	97
10.1- 8.9	<b>9</b> 6	8.7- 6.9	96	6.1	96
8.8	<b>9</b> 5	6.8	94	6.0- 5.9	95
8.7	93	6.7	92	5.8- 5.7	94
8.6	92	6.6	90	5.6- 5.5	93
8.5	91	6.5	88	5.4	87
8.4	90	6.4	87	5.3	78
8.3	89	6.3	82	5.2	70
8.2- 8.1	88	6.2	77	5.1	60
8.0- 7.9	87	6.1	71	5.0	5 <b>0</b>
7.8	83	6.0	65	4.9	
7.7	79	5 <b>.</b> 9	6 <b>1</b>		41
7.6	75	5.8	56	4.8	39 33
7.5	71			4.7	<b>3</b> 7
		5.7	52 40	4.6	<b>3</b> 5
7.4	67 65	5.6	48	4.4	27
7.3	65 63	5.5	45	4.3	22
7.2	63	5.4	41	4.2	21
7.1	61 50	5 <b>.3</b>	39 76	4.1	20
7.0	5 <b>9</b>	5.2	36	4.0	19
6.9	5 <b>8</b>	5.1	33	3.9	16
6.8	5 <b>3</b>	5.0	31	3.8	12
6.7	49	4.9	29	3.7	9
6.6	44	4.8	27	<b>3.</b> 6	8
6.5	40	4.7	26	<b>3.</b> 5	7
6.4	35	4.6	25	3.4	6
6.3	<b>33</b>	4.5	24	3.3	4
6.2	<b>3</b> 2	4.4	22	3.2	3
6.1	31	4.3	21	3.1	1
6.0	<b>3</b> 0	4.2	20		
5 <b>.9</b>	29	4.1	18		
5.8	27	4.0	17		
5.7	26	3.9	16	READ	ING (cont.)
5.6	24	3.8	15	Gr. Score	Percentile
5,5	23	3.7	14	4.3	11
5.4	22	3 <b>.</b> 6	13	4.2- 4.1	10
5 <b>.3</b>	21	<b>3.</b> 5	11	4.0- 3.9	9
5.2- 5.1	20	3.4	10	<b>3.8- 3.</b> 5	8
5.0- 4.9	19	3.3	9	3.4- 3.2	7
4.8	17	3.2- 3.1	8	3.1- 2.9	6
4.7	<b>1</b> 6	<b>3.0-</b> 2.9	6	2.8	5
4.6	15	2.8	5	2.7- 2.6	4
4.5	13	2.7- 2.6		2.5	3
4.4	12	2.5	3	2.4- 2.3	2
•		2.4- 2.3	4 3 2	2.2	1
		2.2	1 /	- <del></del>	· <del>-</del>



#### WRAT - RANDOM SAMPLING

### Local Percentiles

REA	DING	SPEL	LING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>
16.2-15.2	99	9.6-9.2	99	8. <b>3-</b> 8.2	99
15.1-13.9	98	9.1-8.9	98	8.1	98
13.8-12.8	97	8.8-8.6	97	8.0-7.9	97
12.7-11.7	96	8.5	96	7.8	96
11.6-11.4	<b>9</b> 5	8.4-8.3	95	. 7.7	95
11.3-11.0	94	8.2-8.1	94	7.6-7.5	94
10.9-10.7	9 <b>3</b>	8.0-7.9	93	7.4-7.3	9 <b>3</b>
10.6-10.4	92	7.8	92	7.2-7.1	92
10.3-10.0	91	7.7	91	7.0	91
9.9- 9.7	90	7.6	90	6.9-6.8	90
9.6- 9.5	89	<b>7.</b> 5	88	6.7	84
9.4	88	7.4	86	6.6	77
9.3- 9.2	87	7.3	84	6.5	70
9.1	86	7.2	82	6.4	6 <b>3</b>
9.0	<b>8</b> 5	7.1	80	6 <b>,3</b>	61
8.9- 8.7	84	7.0	77	6.2	59
8.6	83	, 6 <b>.</b> 9	<b>7</b> 5	6.1	57
8.5	82	6.8	<b>73</b>	6.0	55
8.4	81	6.7	71	5 <b>.9</b>	5 <b>3</b>
8.3	80	6.6	6 <b>9</b>	5.8	51
8.2	79	6.5	67	5 <b>.</b> 7	48
8.1	77	6.4	64	5.6	<b>4</b> 5
8.0	<b>7</b> 6	6 <b>.3</b>	6 <b>2</b>	5.5	42
7.9	<b>7</b> 5	6 <b>.</b> 2	6 <b>0</b>	5.4	<b>3</b> 8
7.8- 7.7	74	6 <b>.</b> 1	5 <b>8</b>	5 <b>.3</b>	<b>3</b> 5
7.6	71	6.0	5 <b>5</b>	5.2	33
7.5 7.5	68	5.9	5 <b>3</b>	5.1	<b>3</b> 1
7.4	66	5.8	5 <b>0</b>	5 <b>.0</b>	28
7.3	6 <b>3</b>	5.7	<b>47</b>	4.9	27
		5.6	<b>4</b> 5	4.8	<b>2</b> 5
7.2	6 <b>0</b>	5.5	<b>4</b> 0	4.7	23
7.1	5 <b>8</b>	5. 4	<b>3</b> 6	<b>4.</b> 6	22
7.0	55 52		<b>3</b> 1	<b>4.</b> 5	21
6.9	52 50	5 <b>.3</b>		4.4	20
6.8	5 <b>0</b>	5 <b>.</b> 2	26 22		. 19
6.7	48	5 <b>.</b> 1	22	4.2	17
6.6	42	5.0	20	4.1	14
6.5	<b>3</b> 7	4.9	19		11
6.4	32	4.8	18	4.0	
6 <b>.3</b>	27	4.7	17	<b>3.</b> 9	<b>8</b> 6
6.2	22	<b>4.</b> 6	16	<b>3.</b> 8	5
6.1	20	4.5	15 14	<b>3.</b> 7 3.6-3.5	<b>4</b>
6.0	18	4.4	14	<b>3.</b> 6 <b>-3.</b> 5	3
5.9	16	4.3	1 <b>3</b>	<b>3.4-3.</b> 3	2
5.8	14	4.2	12	<b>3.</b> 2-2,8	<b>Z</b>
5.7	12	4.1	11	2.7-2.4	1
(Continue	ed on next page)	)			

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 6 (Cont.)

REA	DING	SPEL	LING	ARITHMETIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score Percentile
5.6	11	4.0	10	
5.5-5.4	10	3.9	9	
5 <b>.3-</b> 5 <b>.2</b>	9	3.8	8	
5.1	8	3.7	7	
5.0	7	<b>3.</b> 6	6	
4.9-4.8	6	3.5-3.3	5	
4.7	5	3.2-3.0	4	
4.6	4	<b>2.9-2.</b> 6	3	
4.5-4.4	3	2.5-2.4	2	
4.3	2	2.3-2.2	1	
4.2-4.1	1			

#### WRAT - RANDOR SAMPLING

#### Local Percentiles

REA	DIMG	SPEL.	LIUC_	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>
			-		
18.4-17.9	99	11.9-11.	99	12,4-12.0	99
17.8-17.7	98	11.7-11.	98	11.9-11.7	98
17.6-17.4	97	11,4-11,2	97	11.6-11.3	97
17.3-19	<b>9</b> 6	11.1-10.9	$Q_{f_0}$	11,2-10.9	<b>9</b> 1
16.8-12	95	10.8-10.7	$\mathbf{G}(\cdot)$	10.8-10.6	95
16.1-15.7	94	10.6-10.5	94	10.5-10.3	94
15.6-15.5	93	10.4	93	10.2- 9.9	93
15.4-15.3	92	10,3-10.2	92	9.8- 9.7	92
15.2	91	10.1-10.0	91	<b>9</b> . (.)	91
15.1-15.0	90	9.9	90	9,5- 9,4	90
14,9-14.8	88	9.8	~9	9.3- 9.1	89
14.7-14.4	87	9,,7	88	9,0- 8.7	88
14.3-14.0	86	9,6	87	8.6- 8.4	87
13,9-13.6	85	9,5	86	8.3	85
13.5-13.2	84	9,4- 9,3	\$\f\ <sup>r</sup> ,	8.2	83
13.1-12.8	83	9,,2	84	8.1	81
12.7-12.4	82	9.1	83	8.0	79
12.3-12.1	81	9,0	82	7.9	78
12.0	80	8.9	81	7.8	75
11.9-11.8	79	8.8	80	7.7	73
11.7	78	8.7- 8.6	79	7.6	71
11,6-11.5	77	8,5- 8,4	78	7,5	68
11.4	<b>7</b> 6	8.3	77	7,4	66
11.3-11.2	75	8.2	74	7.3	6 <b>3</b>
11.1	74	8,1	<b>7</b> 5	7.2	<b>61</b>
1 <b>1.</b> 0-10.9	73	8.0	73	7.1	59
10.8	72	7.9	72	7,0	56
10.7-10.6	71	7.8	71	0 <b>.</b> 9	54
10.5	70	7.7	70	0.8	50
10.4-10.3	69	7.6	ù <b>9</b>	6.7	45
10.2	68	7.5	68	6,6	41
10.1	07	7.4	1,1,	6.5	37
10.0	66	7, 3	62	6, 4	33
9.9	65	7.2	5 <u>9</u>	6.3	30
9.8	64	7,1	55	ũ <b>, 2</b>	28
9.7	fì <b>3</b>	7.0	52	6.1	25
9,6	62	6.9	48	6,0	23
9,5	61	8	<b>4</b> 6	5 <b>.</b> 9	21
n. 4	6 <b>0</b>	6,7	44	5.8-5.7	20
9,3	59	0 n O	43	5.6	19
9,2	58	6 <b>.</b> 5	41	5.5-5.4	18
9,2	57	6.4	39	5,3	17
9.0	57 50	0.3	<b>3</b> 6	5.2	16
8.9	55 55	6 <b>.2</b>	34	5.1	15
o.e9 8.e8	54	0.2 0.1	32	5.0	14
8.7	54 5 <b>3</b>	0. <b>0</b> . <b>0</b>	30	4.9	13
		(.) <b>.</b> U	ÜÜ	4.9	IJ
(roncinued	d on next page)				



2.1 .

#### BEGINNING-YEAR .2 NORMS

#### WRAT - RANDOM SAMPLING

#### Local Percentiles

## GRADE 7 (Cont.)

ARITHMETIC

4.8

4.7

4.6

4.5- 4.4

4.3- 3.4

3.3- 2.8

2.7- 1.7

1.6- k.7

k.6-pk.8

n.8- n.6

n.5- n.3

pk.7- n.9

Gr. Score Percentile

12

11 10

9

8

7

REA	DING		SPEL	LING
	Percentile	Gr. Sc	OPB	<u>Percentile</u>
8.6	<b>52</b>	5	. 9	27
8.5	51	5 <b>.</b> 8 <b>-</b> 5	.7	<b>2</b> 6
8.4	5 <b>0</b>		•6	<b>2</b> 5
8.3-8.2	49	5.5-5		24
8.1-8.0	48		.3	23
7.9	47		.2	22
7 <b>.</b> 8	46		.1	20
7.7-7.6	45		.0	19
7.5	42		.9	18
7.4	40		.8	16
7.3	38		.7	13
7.2	<b>3</b> 6		.,6	11
7.1	33		.5	9
7.0	31		.4	6
6 <b>.9</b>	29	4.3-4		5
<b>6.</b> 8	26	3.9-3		4
6.7	24	3.6-3		3
6.6	23		5.3	2
6.5	21	3	5.2	1
6.4	20			
6.3	19			
6 <b>.2</b>	18			
6.1 .				
6 <b>.</b> 0	15			
5.9	14			
<b>5.</b> 8	12			
5.7-5.5	11			
5.4-5.2	10			
5.1-4.9	9			
4.8	8			
4.7-4.6	7			
4.5	6			
4.4-4.3	5			
4.2	4			
4.1-4.0	3			
3.9-3.2	2			



3.1-2.5

43,°

#### WRAT - RANDOM SAMPLING

#### Local Percentiles

#### GRADE 8

READING		SPEL	LING	ARITHM	ARITHMETIC	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
10 6 10 5	33	47 7 47 5	,	42 0 42 7	60	
18.6-18.5	99	13.7-13.5	99 08	12.9-12.7	99 98	
18.4-18.1	98	13.4-13.2	98 07	12.6-12.5		
18.0-17.9	97 86	13.1-13.0	97 26	12.4-12.3 12.2-11.8	<b>97</b> <b>9</b> 6	
17.8-17.2	96	12.9-12.8	96	. — •		
17.1-16.6	<b>9</b> 5	12.7-12.6	95 04	11.7-11.3	95 0 <i>8</i>	
16.5-15.8	94	12.5-12.3	94	11.2-10.8	9 <i>4</i> 9 <b>3</b>	
15.7-15.6	9 <b>3</b>	12.2-12.1	9 <b>3</b>	10.7-10.3		
15.5	92	12.0-11.8	92 04	10.2- 9.8	9 <b>2</b>	
15.4-15.3	91	11.7-11.5	91	9.7- 9.3	91 00	
15.2	90	11.4-11.3	90	9.2- 9.1	90	
15.1-15.0	89	11.2-11.1	89	9.0	89	
14.9	88	11.0-10.9	88	8.9- 8.8	88	
14.8-14.7	87	10.8	87	8.7	87 86	
14.6	86	10.7	86	8.6	<b>8</b> 6	
14.5-14.4	85	10.6	<b>8</b> 5	8.5	84	
14.3	84	10.5	84	8.4	8 <b>3</b>	
14.2	8 <b>2</b>	10.4	8 <b>3</b>	8.3	8 <b>2</b>	
14.1	81	10.3-10.2	82	8.2	81	
14.0	80	10.1	80	8.1	80	
13.9	78	10.0	78	8.0	<b>79</b>	
1 <b>3.</b> 8	77	9.9	77	7.9	77	
13.7	76	9.8	<b>7</b> 6	7.8	76	
13.6-13.2	<b>7</b> 5	9.7	<b>73</b>	7.7	72	
13.1-12.7	74	9.6	72	<b>7.</b> 6	67	
12.6-12.3	<b>73</b>	<b>9.</b> 5	70	<b>7.</b> 5	6 <b>2</b>	
12.2-12.1	, 72	9.4- 9. <b>3</b>	6 <b>9</b>	7.4.		
12.0-11.9	<sup>//</sup> 71	9.2- 9.0	68	7 <b>.3</b>	5 <b>2</b>	
11.8-11.6	<sup>′</sup> 70	8.9- 8.8	67	7.2	<b>50</b>	
11.5	´ 6 <b>9</b>	8.7	65	7.1	48	
11.4	68	8.6	6 <b>3</b>	7.0	46	
11.3	66	8.5	60	6 <b>.</b> 9	43	
11.2	65	8.4	58	6.8	41	
11.1	6 <b>3</b>	8.3	56	6 <b>.7</b>	<b>3</b> 6	
11.0	62	8.2	54	6.6	<b>3</b> 1	
10.9	61	8.1	5 <b>2</b>	6.5	27	
10.8-10.7	60	8.0	5 <b>0</b>	6.4	23	
10.6-10.5	5 <b>9</b>	7.9	48	6 <b>.3</b>	17	
10.4-10.2	58	7.8	46	6 <b>.2</b>	16	
10.1	5 <b>7</b>	7. 7	44	6.1	13	
10.0	55	7.6	42	6.0	11	
9.9	54	<b>7.</b> 5	40	5.9		
9.8	5 <b>3</b>	7.4	38	5.8	8	
9.7	5 <b>2</b>	7.3	<b>3</b> 6	5.7	9 8 7	
9.6	51	7.2	<b>3</b> 5	5.6- 5.5		
9.5	5 <b>0</b>	7.1	<b>3</b> 4	5.4- 5. <b>3</b>	6 5	
9.4	49	7.0	<b>33</b>	5 <b>.2-</b> 5 <b>.0</b>	4	
	nued on next pa	4		3.1	•	
( 0011011	idea ou ueva ha	<b>5</b> -/				

ERIC

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 8 (Cont.)

		<u> </u>	L 0 (001196)		
REA	DING	SPEL	LING		HMETIC
Gr. Score	Percentile	<u> Gr. Score</u>	Percentile	Gr. Score	<u>Percentile</u>
9.3	48	6.9	31	4.9-4.8	3
9 <b>.</b> 2	47	6.8	30	4.7-4.5	2
9.1	46	6.7	29	4.4-4.3	1
9.0-8.9	45	6.6	28	.•	·
8.8	44	6.5	27		
8,7	43	6.4	26		
	42	6.3	25		
8.6 8.5	40	6.2	24		
	39	6.1	22		
8.4		6.0	21		
8.3	<b>3</b> 8	5.9	20		
8,2	<b>3</b> 6	5.8	19		
8,1	<b>3</b> 5	5.7	18		
8.0	34		17		
7.9	33	5.6 5.5	16		
7.8	32				
7.7	31	5.4	15		
7.6-7.5	30	5.3	14		
7,4	29	5.2-5.1	13		
7,,3	28	5.0~4.9	12		
7.2	27	4.8-4.6	11		
7.1	26	4.5-4.4	10		
7.0-6.9	25	4.3	9		
0.8-0.7	24	4.2-4.1	8		
(14 ()		.4.0	7		
6.5	22	<b>3.9-3.</b> 8	6		
6.4	21	3.7	5		
6.3	× ()	3.6-3.5	4		
(i.2	19	3.4	3		
O.1	18	3,3-3,2	2		
() <b>"</b> ()	1 7	3,1-2,5	1		
5,9	16				
5.8	15				
5,7	14				
5.6-5.5	13				
5.4	12				
5.3	11				
5.2-4.9	10				
4.8-4.4	9				
4.3-3.9	8				
3.8-3.4	7				
3.3-3.0	6)				
2.9-2.6	5				
2.5	4				
2.4	3				
2.3	2				
2.2	1				

#### WRAT - RANDOM SAMPLING

#### Local Percentiles

#### GRADE 9

RFA	DING		SPELL	.ING		ARITH	METIC
Gr. Score	Percentile	GI	. Score	Percenti	<u>le</u>	Gr. Score	<u>Percentile</u>
	· ·					47 7 47 4	00
17.2	99	•	2.9-12.5	99		13.7-13.4	99
17 <b>.1-</b> 17 <b>.0</b>	98		2.4-12.1	98		13.3-13.0	98 97
16 <b>.9</b>	97		2.0-11.8	97		12.9-12.6	97 26
16 <b>.8</b>	96	11	1.7-11.4	96		12.5-12.3	96
16 <b>.7</b> 7			11.3	94		12.2-12.1	95 8.4
16 <b>.6</b>	94		11.2	93		12.0-11.8	94
16.5-16.4	93		11.1	<b>9</b> 1		11.7-11.6	93
16.3-15.7	92		11.0	89		11.5	<b>92</b>
15. <i>6</i> -15.0	91		10.9	87		11.4-11.3	91
14.9-14.4	90	10	0.8-10.7	86		11.2	90
14.3	89		10.6	85		11.1-11.0	89
14.2	88		0.5-10.4	84		10.9	88
14.1	87	10	0.3-10.2	83		10.8-10.7	87
14.0	86		10.1	8 <b>2</b>		10.6-10.5	86
13.9-13.8	85	10	0.0- 9.9	81		10.4	85
13.7	84		9.8	<b>79</b>		10.3-10.2	84
<b>13.</b> 6	83		9.7	77		10.1-10.0	83
13.5	82		9.6	74		9.9- 9.8	82
13.4	81		9.5	71		9.7- 9.5	81
1 <b>3.</b> 3	79		9.4	6 <b>9</b>		9.4	80
13.2	78		9.3	68		9.3	78
13.1	<b>7</b> 6	1	9.2	66		9.2	77
13.0	75		9.1	6 <b>5</b>		9.1	<b>7</b> 6
12.9	74		9.0	64		9.0	74
12.8	73		8.9	6 <b>3</b>		8.9	73
12.7	72		8.8	61		8.8	72
12.6	71		8.7	60		8.7- 8.5	71
12.5	70		8.6			8.4	70
12.4-12.3	69		8.5			8.3- 8.1	69
12.2	68		8.4			8.0	67
12.1	67		8.3			7.9	66
12.0	<b>6</b> 6		8.2	,		7.8	6 <b>5</b>
11.9	65		8.1	52		7.7	64
11.8-11.7	64		8.0			7.6	
11.6	6 <b>3</b>		7.9			7.5	61
11.5	6 <b>2</b>		7.8			7.4	60
11.4	61		7.7			7.3	
11.3	6 <b>0</b>		7.6			7.2	
11.2-11.1	<b>59</b>		7.5			7.1	
11.0	58		7.4			7.0	
10.9	57		7.3			6.9	
10.8	<b>5</b> 6		7.2			ő <b>.</b> 8	
10.7			7.1			6.7	
10.6	54		7.0		,	6 6	
10.5	53		6.9		معدد ومرو ويوو يو . ه	6.5	
10.4	52		6.8- 6.5			6.4	
	ntinued on ne:	t page)			•		
(	HOTHINGO DIL HE	, hade,		••			

ERIC Afull Text Provided by ERIC

#### WRAT - RANDOM SAMPLING

#### Local Percentiles

GRADE 9 (Cont.)

RLV	DING	(sPf.	LLING	ARIT	ARITH LTIC		
	Percentile	Gr. Score	Percentile	Cr. Score	<u>Percentile</u>		
10.3-10.2	51	6.4-6.2	22	6.3	27		
10.1	50	6.1-5.9	21	. G <sub>n</sub> 2	25		
10.0	48	5,8	19	6 <b>.1</b>	24		
9.9	47	5.7	17	6.0	22		
9.8	46	5.6	16	5,9	21		
9.7	45		14	5.8	19		
9.6	43	Fj.4	12	5.7	13		
9.5	42	5.3-5.1	11	<b>5.</b> 6	16		
9.4	40	5.0-4.8	10	5.5	14		
9,3	39	4.7.4.4	9	U. 4	13		
9.2	37	4.3-4.2	B	5.3	12		
0.1	35	4.1	7	5,2-5,1	11		
9.0	34	4,0-3.9	f i	5.0-4.9	10		
8.9	32	3.8	5	4.8-4.6	9		
8.8	30	3.7-3.6	4	4.5-4.4	8		
8.7	28	3.5-3.4	3	4,3-4,2	7		
8,0	27	3.3	2	4.1-3.9	f)		
8.5	26	3.2	1	3.8	5		
8.4	25			3.7	4		
8.3	23			3.6-3.5	3		
8.2	22			3,4-3,0	2		
8.0- 8.1	21			2,9-2,5	1		
7.8- 7.9	20						
7.6- 7.7	19						
7.4- 7.5	18						
7.3	17						
7.2	15						
7.1	14						
7.0	13						
6.9	11						
6.8	10						
6,7							
6.6- 6.2	8						
6.1- 5.8							
5.7- 5.3			•				
5.2- 5.0							
4.9- 4.8							
4 (2) A C	<b>"</b> 2						



4.7- 4.6 4.5- 4.4 4.3- 4.2

3

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ	READING SPELLING		_ING	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
19.4	99	14.4-14.3	99	13.4-13.3	, 99,	
19.3	98	14.2	98	13.2	98	
19.2	97	14.1	97	13.1	97	
19.1	<b>9</b> 6	14.0	<b>9</b> 6	13.0-12.9	<b>9</b> 6	
19.0	<b>9</b> 5	13,9	<b>9</b> 5	12.8-12.6	<b>9</b> 5	
18.9	93	13.8	94	12.5-12.2	94	
18,8-18.7	<b>9</b> 2	13.7	93	12.1-11.9	93	
18.6-18.4	91	13.6	<b>9</b> 2	11.8-11.7	92	
18.3-18.2	90	13.5	90	11.6	91	
18.1-18.0	89	13.4	88	11.5-11.4	90	
17.9-17.7	88	13.3	<b>8</b> 6	11.3-11.2	89 '	
17.6-17.5	<b>87</b> ·	13.2	84	11.1-11.0	88	
17.4-17.3	<b>8</b> 6	13.1	82	10.9	87	
17.2	85	13.0	80	10.8	<b>8</b> 6	
17,1-17.0	84	12.9-12.7	79	10.7	84	
16.9	83	12.6-12.5	78	10.6	83	
16.8-16.7	<b>8</b> 2	12.4-12.3	77	10.5	81	
16.6-16.5	81	12.2-12.0	<b>7</b> 6	10.4	80	
16.4	80	11.9-11.8	75	10.3	79	
16.3-16.2	7 <b>9</b>	11.7-11.6	74	10.2-10.1	78	
16.1-16.0	78	11.5	72	10.0- 9.9	77	
15.9-15.8	77	11.4	70	9.8- 9.6	76	
15.7-15.6	76	11.3	67	9,5- 9.3	75	
15.7-15.0	75	11.2	65	9.2- 8.9	74	
15,2-15,1	74	11.1	6 <b>3</b>	\$.8	70	
•	73	11.0	6 <b>0</b>	8.7	66	
15.0-14.7	73 72	10.9				
14.6-14.4			58 57	8.6	62 <b>50</b>	
14.3-14.1	71 70	10,8-10.7	57 56	8.5	58 54	
14.0-13.7	70	10.6-10.5	56 55	8.4	54 52	
13.6	6 <b>8</b>	10.4	55 5 4	8.3	53 50	
13.5	66 6 <b>5</b>	10.3-10.2	54 53	8.2- 8.1	52	
13.4	6 <b>5</b>	10.1	53 51	8.0- 7.9	51	
13.3	63	10.0	51 50	7.8	49	
13.2	6 <b>1</b>	9.9	50	7.7	47	
13.1	6 <b>0</b>	9.8	49	7.6	45	
13.0	58	9.7	47	7.5	43	
12.9	57 57	<b>9.</b> 6	<b>4</b> 6	7.4	41	
12.8	55 5 <i>f</i>	9.5	45	7.3	37	
12.7	54	9.4	43	7.2	31	
12.6	52 	9.3	42	7.1	26	
12.5	50	9.2	41	7.0	21	
12.4	49	9.1	39	6 <b>.9</b>	<b>1</b> 6	
12.3	48	9.0	38	6 <b>.</b> 8	14	
12.2	47	8.9	<b>3</b> 6	6.7	12	
12.1	46	8.8	<b>35</b>	6.6	10	
		8.7	33	6.5	9 7	
		<b>8.</b> 6	<b>3</b> 2	6.4	7	
		8.5	30	6.3	5	
				6.2	3	
				6.1	5 3 2 1	
				6 <b>.</b> 0	1	



## WRAT - RANDOM SAMPLING

## Local Percentiles

## Grade 10 (con't.)

ARITHMETIC

Percentile

Gr. Score

READING					
Gr. Score	Percentile				
12.0	45				
11.9	44				
11.8	43				
11.7	42				
11.6	41				
11.5	39				
11.4	37				
11.3	<b>3</b> 6				
11.2	34				
11.1	<b>3</b> 2				
11.0	30				
10.9	2 <b>9</b>				
10.8-10.7	28				
10.6	27				
10.5-10.4	26				
10.3-10.2	25				
10.1- 9.7	24				
9.6- 9.2	23				
9.1- 8.8	22				
8.7	21				
8.6	19				
8.5	17				
8.4	16				
8.3	15				
8.2	13				
8.1	12				
8.0	11				
7.9	10				
7.8	9				
7.7	8				
7.6	7				
7.5- 7.4	б				
7.3- 6.7	5				
6.6- 6.0	4				
5.9- 5.3	3				
5.2- 4.8	2				
4.7- 4.4	1				

SPELL	
Gr. Score	<u>Percentile</u>
8.4	29
8.3	28
8.2	26
8.1	25
8.0-7.9	24
7.8-7.6	2 <b>3</b>
7.5-7.4	22
7.3	20
7.2	18
7.1	16
7.0	15
6 <b>.9</b>	12
6 <b>.8</b>	10
6.7	9
6.6-6.5	8
6.4-6.3	7
6.2 <b>-</b> 6.0	6
5.9-5.8	5
5.7-5.5	4
5.4-5.3	3
5.2-4.8	2
4.7-4.5	1



#### WRAT - RANDOM SAMPLING

#### Local Percentiles

#### GRADE II

REAL	DING	SPELI	LING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
17.9	99	14.4-14.3	99	16.9-16.0	99
17.8	<del>9</del> 8	14.2-14.1	98	15,9-15 <b>.</b> 0	<del>9</del> 8
17.7	97	14,0	97	14.9-14.0	97
17.6	<b>9</b> 6	13,9-13.8	<b>9</b> 6	13 <b>,9-</b> 12 <b>,9</b>	<b>9</b> 6
17.5	<b>9</b> 5	13.7	<b>9</b> 5	12.8	<b>9</b> 5
17.4	94	13,6-13,5	94	12.7-12.6	94
17.3-17.2	<b>9</b> 3	13.4	<b>9</b> 3	12.5-12.4	93
17.1-17.0	<b>9</b> 2	13.3-13.2	<b>9</b> 2	12.3	<b>9</b> 2
16 <b>.9-</b> 16 <b>.7</b>	91	13.1	91	12.2-12.1	91
16.6-16.5	<b>9</b> 0	13.0-12. <b>9</b>	<b>9</b> 0	12 <b>.</b> 0-11 <b>.9</b>	90
16.4-16.2	8 <b>9</b>	12.8	8 <b>9</b>	11.8	89
16.1-16.0	88	12.7-12.6	88	11.7	88
15.9-15.8	87	12.5-12.4	87	<b>11.</b> 6	87
15.7-15.5	<b>8</b> 6	12.3	<b>8</b> 6	11.5	<b>8</b> 6
15.4-15.3	<b>8</b> 5	12,2-12,1	<b>8</b> 5	11.4	<b>8</b> 5
15.2-15.1	84	12,0-11.9	84	11,3	84
15.0-14.9	83	11,8	83	11.2	83
14.8-14.7	<b>8</b> 2	11,7	81	11.1-11.0	<b>8</b> 2
14.6-14.4	81	11.6	80	10.9	81
14.3	80	11,5	79	10.8	80
14.2	79	11.4	78	10.7	78
14.1-14.0	78	11.3	77	10.6	<b>7</b> 6
13.9	77	11.2	<b>7</b> 5	10.5	74
13.8	<b>7</b> 6	11.1	74	10.4	72
13.7	75	11.0	73	10.3	71
<b>1</b> 3,6	<b>7</b> 3	10.9	72	10.2	70
13.5	72	10.8	71	10,1	б <b>В</b>
13.4	70	10.7	69	10.0	67
13.3	6 <b>8</b>	10.6	67	9,9	66
<b>13.</b> 2	6 <b>7</b>	10.5	65	9.8	6 <b>4</b>
13.1	65	10.4	63	9.7	62
13.0	6 <b>3</b>	10.3	61	<b>9.</b> 6	6 <b>0</b>
12 <b>.9</b>	6 <b>0</b>	10.2	60	<b>9.</b> 5	5 <b>8</b>
12.8	58	10,1	59	9.4	5 <b>7</b>
12.7	56	10.0	58	9.3	5 <i>.</i> 55
12.6	5 <b>4</b>	9 <b>.9</b>	5 <b>7</b>	9.2	5 <b>3</b>
12.5	5 <b>2</b>	9.8	5 <b>4</b>	9.1	5 <b>1</b>
12.4	50	9,7	51	9.0	49
12.3	48	<b>9.</b> 6	<b>4</b> 8	8.9	48
12.3 12.2	46	9,5	45	8.8	<b>4</b> 6
12.1	44	<b>9.</b> 4	<b>4</b> 2	8.7	<b>44</b>
12.0	44 42	9.4 9.3	40	<b>8.</b> 6	<b>4</b> 2
	42 40	<b>9</b> ,2	3 <b>9</b>	8.5	40 40
11.9			3 <del>9</del> 3 <b>7</b>	8.4	3 <b>9</b>
11.8	38 36	9.1			3 <del>9</del> 37
11.7	<b>3</b> 6	9.0	35 33	8.3	3 <i>1</i>
11.6	35	8.9	33 axt <b>a</b> ass	B.2	
Contid, ne	avr hada	Cont'd, n	evr hada	Con'td.nex	r hade



#### WRAT - RANDOM SAMPLING

#### <u>Local Percentiles</u>

## GRADE II (contid.)

READING		SPEL_I	_ING	ARITHM	ARITHMETIC		
Gr. Score	Percentile	Gr. Scure	Percentile	Gr. Score	<u>Percentile</u>		
11.5	33	5,8-8.7	32	8.1	35		
11.4	32	8,6	31	8,0	34		
11.3	30	8,5-8,4	30	7 <b>.</b> 9	33		
11.2	29	8,3	29	7.8	31		
11.1	27	8,2-8.1	28	7.7	2 <b>9</b>		
11.0	26	8.0-7.9	27	7.6	27		
10,9	25	7.8	26	7.5	25		
10.8	23	7.7	25	7.4	24		
10.7	22	7.6	23	7.3	21		
10.6	20	7.5	22	7.2	18		
10,5	19	7,4	21	7.1	15		
10.4	17	7.3	20	7.0	12		
10.3	<b>1</b> 6	7.2-7.1	19	6 <b>.9</b>	9		
10.2	<b>1</b> 5	7.0-6.9	18	6 <b>.</b> 8	8		
10.1-10.0	14	6 <b>.</b> 8	<b>1</b> 6	6.7	7		
9,9- 9,7	13	6.7	14	6 <b>.</b> 6	5		
9 <b>.</b> 6- 9.5	12	6,6	13	6.5	4		
9.4	11	6.5	11	6.4	3		
9,3- 9.2	10	6,4	9	6.3	2 1		
9.1- 8.9	9	6,3-6,2	8	6.2	1		
8.8- 8.7	8	6,1	7				
8.6- 8.5	7	6,0	Ð				
8.4- 8.1	6	5 <b>.9-</b> 5 <b>.</b> 8	5				
8.0- 7.9	5	5.7	4				
7.8- 7.6	4	5.6-5.5	3				
7.5- 7.4	3	5 <b>,</b> 4-5,3	2				
7.3- 6.9	2	5.2-5.1	1.				
6.8- 6.4	.1						



## WRAT - FANDOM SAMPLING

#### Local Percentiles

<b>R E</b> A (	READINGSPEL		_ING	ARITH	ARITHMETIC	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
18.4-18.3	99	14.4-14.2	99	15.8-15.3	99	
18.2	98	14.1-14.0	98	15.2-14.8	98	
18.1	97	13.9	97	14.7-14.3	97	
18.0-17.9	<b>9</b> 6	13.8-13.7	96	14.2-13.7	<b>9</b> 6	
	94	13.6-13.4	<b>9</b> 5	13.6-13.5	<b>9</b> 5	
17.8			93 94		94	
17.7	92 88	13.3-13.2		13.4		
17.6	90	13,1-13.0	93 80	13.3	93	
17.5	88	12.9	<b>9</b> 2	13.2	92	
17.4	86	12.8	91 88	13.1-13.0	91 22	
17.3	85	12.7	90	12.9	90	
17.2	83	12.6	89	12.8	89	
17.1	82	12.5	88	12.7-12.6	88	
17.0	81	12.4	87	12.5	87	
16 <b>.9</b>	80	12.3	86	12.4-12.3	<b>8</b> 6	
16.8	79	12.2	85	12.2-12.0	85	
16.7	7 <b>7</b>	12.1	83	. 11.9	84	
16,6	76	12.0	81	11.8-11.6	83	
16.5	74	11.9	80	11.5-11.4	82	
16.4	73	11.8	79	11.3-11.1	81	
16.3	72	11.7	7 <b>7</b>	11.0-10.9	80	
16.2-16.1	71	11.6	76	10.8-10.7	79	
16.0-15.9	70	11.5	72	10.6-10.5	78	
15.8	6 <b>9</b>	11.4	68	10.4-10.3	77	
15.7	6 <b>7</b>	11.4	65		<b>7</b> 6	
	66	11.2	61	10.2		
15.6				10.1	75 74	
15.5	64	11.1	57 57	10.0	74	
15.4	63	11.0	53 58	9.9	73 7-	
15.3	61	10.9	50	9.8	72	
15.2	60	10.8	48	<b>9.7- 9.</b> 6	71	
15.1	59	10.7	46	<b>9.</b> 5	70	
15.0	57	10.6	44	9.4	6 <b>7</b>	
14.9	56	10.5	42	9 <sub>◆</sub> 3	65	
14.8-14.7	55	10.4	40	9.2	61	
14.6	54	10.3	38	9.1	58	
14.5-14.4	53	10.2	<b>3</b> 6	9.0	55	
14.3	52	10.1	34	8.9	52	
14.2-14.1	51	10.0	32	8, 8	50	
14.0-13.9	50	9.9	30	8. <b>.</b> 7	49	
13.8	48	9.8	28	8.6	48	
13.7	46	9.7	26	8.5	47	
13.6	44	9.6	25	8.• 4	46	
13.5	42	9.5	23	8.43	45	
13.4	40	9.4- 9.2	22	8.• 2	44	
13.3	39	9.4- 9.2	21			
TJ•J	Ja	9.0- 8.8	20	8.1	43	
				8 <sub>•</sub> 0	41	
		8.7- 8.5	19	7.9	40 70	
				7.8	<b>39</b>	



1.474...

.

Pot C.	1.0		and the second s	
the same and a second problem in the contract of the second of	F. This is a second sec			1 1 r
1 4.	12-	,		1
19.1	1		•	,
1:1.11	); •		•	: <u> </u>
127,4		•	•	`. • <b>T</b>
1	14		•	; ] '1
17.7	<i>(, (</i>		•	
1 (1)	3 31		•	$\phi_{ij}$
1 . 4			• · · · · · · · · · · · · · · · · · · ·	14 14
1	· · · <b>( )</b>	•		
1				1 1
, , ,				1
15.8-11.9				,
11.8-11.7	1			j
	(4)			$A(T) = \{ x \in X \mid x \in X \}$
11. 11. 11. 1	•		+1	1 **
11.1	′ 1			14
	. 11			1.7
1 # . ;	1		4	1.11
1 1 11	<b>!</b> ' '			7 7
100.	<b>t</b> *		••	147
111.1. 111.	1			11
10.1	; j		•	<i>i</i>
14 - 25 g - 15 - 14 - 15 - 14 - 15 - 15 - 15 - 15	,		•	
( )				
· · · · · · · · · · · · · · · · · · ·			· · · · ·	•
			• • •	· • • • • • • • • • • • • • • • • • • •
3,4				
<i>(1)</i> , (1)				ţ
$\Omega_{\star}^{*}$	) •			
21	1			
11.11	<b>/</b>			
1 . st	•			
11 - 11 - 1				
7.10	1			

#### MID-YEAR STATISTICS (.4)

#### WIDE RANGE ACHIEVEMENT TEST

#### RANDOM SAMPLE

GRADE		READ	ING			SPELL	ING		ARITHMETIC		
LEVEL	X	8	XGs	eSs .	X	3	XGs	<b>s</b> Gs	X	9	
1	1.25	1.26	1.10	1.32	1.29	.84	•55	.9	1.6	.69	
2	3.38	.93	1.93	.99	2.5	. 79	1.39	.98	2.7	.44	
3	4.56	3.62	3.54	3.47	3.74	1.88	1.37	1.33	3,31	4.59	
4	5.84	2.20	4.25	3.23	4.95	1.49	2.22	1.60	4.42	<sub>e</sub> 54	
5	7.30	2.50	4.53	3.09	5.91	1.91	2.27	1.94	5.33	.94	
6	7.83	1.98	6.48	3.07	6.44	1.48	3.18	2.16	6.04	1.04	
7	9.35	3.36	5.87	3.91	7.4	1.65	3.95	2,35	6,85	1.59	
8	12.0	3.15	8.34	3.65	8.55	1.68	3.72	2.02	8.62	2.49	
9	10.5	3.09	7.20	4.16	8.96	2.40	5.35	2.36	8.45	1.98	
10	11.5	2.23	7.62	3.30	9,90	2.66	5.45	2.72	8.86	1.88	
11	12.4	4.44	6.30	2.54	9.75	3.33	5.60	2.84	9.45	1.8	
12	12.6	3.17	8.20	3.17	10.9	3,16	5.42	2.50	9.45	2.83	

X : Mean (Average Score)

s : Standard Deviation

XGs: Mean Grade Span (Average Grade Span)

sGs: Standard Deviation of Grade Span

For example, the average 3rd grader received a reading score of 4.5 or 4.6, and measured about 3.5 years between the basal and maximal scores on Reading. Sixty-seven percent of the 3rd graders had reading scores between 0.9 and 8.2. (Use the same approach to analyse Spelling scores and Arithmetic scores.)



# WRAT - RAMDOM SAMPLING December 1966-67 Local Percentiles

READING		SPEL	LING	ARITH	ARITHMETIC		
Gr. Score.	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
Above 4.7	99+			<del></del>			
4.7	99						
3.7	98						
3.6 - 3.2	97						
3.1	96						
3.0	96			30 & up	99◆		
2.9	96	2.9	98	2.9	99		
2.8	95	2.8	97	2.8	98		
2.7	94	2.7	97	2.7	98		
2.6	94	2.6	96	• /	97		
2.5	93	2.5	96	2.5	97		
2.4	92	2.4	95	2.4	96		
2.3	91	2.3	93	2.3	91		
2.2	91	2.2	91	2.2	86		
2.1	90	2.1	89	2.1	80		
2.0	89	2.0	87	2.0	75		
1.9	89	1.9	84	1.9	68		
1.8	86	1.8	79	1.8	60		
1.7	83	1.7	72	1.7	50		
1.6	81	1.6	66	1.6	41		
1.5	78		60	1.5	32		
1.4	75	1.5	53	1.4	28		
	68	1.4		1.3	24		
1.3	<b>60</b>	1.3	48	1.2	21		
1.2	50	1.2	44	1.1	18		
1.1		1.1	<b>4</b> 0	1.0	14		
1.0	40	1.0	<b>3</b> 6	K.9	11		
K.9	32 38	K.9	<b>32</b>	K.8	10		
K.8	28	K•8	28	K.7	9		
K.7	22	K.7	24	K.6			
K.6	19	K.6	20	K.5	8 <b>7</b>		
K.5	14	K.5	15	K.4	7		
K.4	10	K.4	11	K.3	7		
K.3	10	K.3	10	K.2	6		
K.2	10	K.2	10		6		
K.1	9	K.1	10	K.1	6		
K.0	9	K.0	10	K.0	6		
PK.9	8	PK.9	9	PK.9	5		
PK.8	8	PK.8	9	PK.8	5		
PK.7	7	PK.7	8	PK.7	5		
, PK . 6	7	PK.6	8	PK.6	5 5 5		
'PK.5	6	PK.5	8	PK.5	ວ ຮ		
PK . 4	6	PK.4	8	PK.4	5		
PK.3	5	PK.3	7	PK.3	4		
PK.2	5	PK.2	6	PK.2	4		
PK.1	4	PK.1	5	PK.1	4		
PK.0	4	PK.O	4	PK.O	4		

# WRAT - RANDOM SAMPLING December 1966-6?

Local Percentiles

CRADE 1 (Contd)

READING		SPEL	LING	ARITH	ARITHMETIC		
Gr. Score	Percentile	الكاسي بالمتعدد بيروي	Percentile	Gr. Score	Percentile		
N. 9	3	N.9	3	N.9	4		
N.8	3	N.8	3	N.8	3		
N. 7	3	N.7	3	N.7	3		
N.6	2	N.6	2	N.6	3		
N.5	2	N.5	2	N.5	2		
N. 4	2	N.4	2	N.4	2		
N.3	ī			N.3	2		
N.2	ī			N.2	l or less		
N.1	ī						



## WRAT - RANDOM SAMPLING

December 1966-67 Local Percentiles

READING		SPEL	SPELLING AR			
Gr.		percentile	Gr. Score	Percentile	Gr. Score	Percentile
	& up	99+	4.5 & up	99♦	3.9 % up	99♦
	5.3	99	4.4	99	3.8	99
	5.2	98	4.3	99	3.7	99
	5.1	98	4.2	98	3.6	98
	5.0	97	4.1	97	3.5	98
	4.9	97	4.0	97	3.4	97
	4.8	95	3.9	96	3.3	96
	4.7	94	3.8	95	3.2	96
	4.6	91	3.7	94	3.1	86
	4.5	89	3.6	92	3.0	76
	4.4	86	3.5	90	2.9	68
	4.3	82	3.4	89	2.8	63
	4.2	78	3.3	85	2.7	58
	4.1	7 <b>3</b>	3.2	80	2.6	53
	4.0	69	3.1	76	2.5	40
	3.9	64	3.0	72	2.4	27
	3.8	64	2.9	68	2.3	15
	3.7	<b>63</b>	2.8	62	2.2	12
	3.6	62	2.7	58	2.1	10
	3.5	61	2.6	51	2.0	7
	3.4	61	2.5	45	1.9	6
	3.3	58	2.4	39	1.8	5
	3.2	<b>53</b>	2.3	33	1.7	4
	3.1	48	2.2	28	1.6	2
	3.0	43	2.1	22	1.5 and	· Under 1
	2.9	38	2.0	16	Below	Officer 1
	2.8	<b>33</b>	1.9	11	Delow	
	2.7	28	1.8	10		
	2.6	23	1.7	9		
	2.5	18	1.6	8		
	2.4	14	1.5	8		
	2.3	12	1.4	7		
	2.2	9	1.3	7		
	2.1	6	1.2	6		
	2.0	5	1.1	6		
	1.9	4	1.0	6		
	1.8	3	K.9	5		
	1.7	3	K.8	5		
	1.6	2	K.7	5		
	1.5	2	K•6	4		
	1.4	1	K.5	4		
11		J.			•	
פחט	er 1.3	1	K.4	4 3		
		or lower	K.3	2		
			K.2	1		
			K.1	_		
			K.0	Under l		



READ	DING	SPEI	SPELLING		METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
9.7 & up	99+	9.8 & up	99+	4.3 & up	99♦
9.6	99	9.7-9.0	98	4.2	99
9.5	98	8.9-8.0	97	4.1	96
9.4	96	7.9-7.4	96	4.0	93
9.3-9.2	94	7.3-7.0	95	3.9	89
9.1-9.0	93	6.9-6.5	94	3.8	85
8.9-8.8	92	6.4	93	3.7	80
8.7-8.6	91	6.3	92	3.6	75
8.5-8.4	90	6.2	91	3.5	69
8.3-8.0	89	6.1-5.9	90	3.4	64
7.9-7.7	88	5.8-5.7	89	3.3	<b>58</b> .
7.6-7.2	87	5.6-5.5	88	3.2	50
7.1-6.8	86	5.4-5.3	87	3.1	42
6.7-6.4	85	5.2-5.1	86	3.0	34
6.3-6.2	84	5.0-4.9	85	2.9	29
6.1-5.9	83	4.8	84	2.8	24
5.8	82	4.7	<b>83</b>	2.7	19
5.7-5.6	81	4.6	81	2.6	14
5.5	8C	4.5	80	2.5	9
5.4	79	4.4	79	2.4	4
5.3	78	4.3-4.2	78	2.3	3
5.2	77	4.1	77	2.2	2
5.1	75	4.0	76	2.1	ī
5.0	74	3.9	75	2.0	ī
4.9	72	3.8	68	1.9 and	Under 1
4.8	68	3.7	63	Below	511302 2
4.7	65	3.6	57	5510	
4.6	62	3.5	50		
4.5-4.4	58	3.4	45		
4.3-4.2	57	3.3	44		
4.1-4.0	56	3.2	42		
3.9	55	3.1	41		
3.8	52	3.0	40		
3.7	50	2.9	39		
3.6	47	2.8	34		
3.5	44	2.7	31		
3.4	41	2.6	27		
3.3	39	2.5	24		
3.2	36	2.4	20		
3.1	33	2.3	17		
3.0	30	2.2	14		
2.9	27	2.1	11		•
2.8	23	2.0	8		
2.7	20	1.9	6		
2.6	16	1.8-1.7	5		
2.5	14	1.6-1.5	4		
2.4	11	1.4	3		
~ • ~	••	104	J		



## GRADE 3 (Contd)

REA	DING	SPELLING			
Gr. Score	Percentile	Gr. Score	Percentile		
2.3	8	1.3-1.2	2		
2.2	6	1.1	1		
2.1	4	1.0 and	Under 1		
2.0	1	Below			
2.0 and	Under 1				
Relow					



REAL	DING	SPEL	SPELLING		ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
10.6 & up	99◆	9.0 & up	99♠	5.6 & up	99+		
10.5	99	8.9-8.6	99	5.5	99		
10.4-10.3	98	8.5-8.4	98	5.4	97		
10.2-10.0	97	8.3-8.2	97	5.3	95		
9.9- 9.8	96	8.1-7.8	96	5.2	92		
9.7	95	7.7-7.5	95	5.1	91		
9.6	94	7.4-7.2	94	5.0	90		
9.5	93	7.1-6.9	93	4.9	89		
9.4- 9.2	92	6.8	91	4.8	81		
9.1- 9.0	91	6.7	90	4.7	73		
8.9- 8.5	90	6.6	88	4.6	64		
8.4	89	6.5	87	4.5	55		
8.3	88	6.4	86	4.4	47		
8.2	86	6.3	82	4.3	<b>3</b> 9		
8.1	85	<b>6.</b> 2	78	4.2	3 <b>4</b>		
8.0	84	6.1	75				
<b>7.</b> 9	82		75 71	4.1	30 35		
7 <b>.</b> 8		6 <b>.</b> 0		4.0	25		
	81 <b>7</b> 0	5 <b>.</b> 9	68 67	3.9	20		
7.7	<b>7</b> 9	5.8	67	3.8	15		
7.6	78 76	5.7-5.6	66 65	3.7	11		
7.5	76	5.5	65	3.6	10		
7.4	<b>75</b>	5.4	64	<b>3.</b> 5	9		
7.3	74	5.3	63	3.4	8		
7.2	72	5.2	62	<b>3.</b> 3	8 5 3		
7.1	71	5.1	60	3.2			
7.0	69	5.0	59	3.1	1 1		
6.9	68	4.9	57	3.0	1		
6.8	66	4.8-4.7	56	2.9 and	Under 1		
6.7	65	4.6	55	Below			
6.6	63	4.5	54				
6.5	62	4.4	53				
5.4	60	4.3	49				
6.3	59	4.2	44				
6.2	58	4.1	39				
6.1	56	4.0	33				
6.0	55	3.9	29				
5.9- 5.8	53	<b>3.</b> 8	25				
5.7	<b>52</b>	3.7	21				
5.6- 5.5	51	<b>3.</b> 6	18				
5.4	50	3.5	14				
5.3	48	3.4	11				
5.2	46	3.3	9				
5.1	44	3.2	8				
5.0	41	3.1	7				
4.9	39	3.0	5				
4.8	38	2.9-2.8	3				
4.7	36	2.7-2.6	<b>3</b> 2				
4.6	<b>35</b>	2.5-2.3	ĺ				
4.5	34		Under 1				
4.J	<b>54</b>	<sup>2</sup> Below	Oliger I				



## WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

GRADE 4 (Contd)

READING						
Percentile						
<b>3</b> 2						
31						
29						
28						
26						
25						
2 <b>3</b>						
21						
19						
16						
14						
13						
12						
10						
9						
7						
6						
4						
3						
1						
Under 1						

教徒の人の物料があっかい

ERIC \*\*
\*Full Test Provided by ERIC

## WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

READ	ING	SPE	SPELLING		THMETIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
13.4-12.8	99+	11.9-11.4	99+	7.8-7.5	99+
12.7-12.0	98	11.3-10.8	98	7.4-7.2	98
11.9-11.4	97	10.7-10.2	97	7.1-7.0	97
11.3-10.8	96	10.1- 9.8	96	6.9-6.8	96
10.7-10.6	95	9.5- 9.7	95	6.7	95
10.5-10.4	94	9.4- 9.2	94	6.6	93
10.3	93	9.1- 8.9	93	<b>6.5</b>	92
10.2	92	8.8	92	6.4	88
10.1	91	8.7	91	<b>6.3</b>	84
10.0	90	8.6- 8.5	90	6.2	78
9.9	89	8.4	89	6.1	77
9.8	88	8.3- 8.2	88	6.0	76
9.7	87	8.1	87	5.9	<b>7</b> 5
9.6	86	8.0- 7.9	86	5.8	72
9.5	84	7.8- 7. <i>6</i>	8 <b>5</b>	5.7	70
9.4	83	7.5- 7.3	84	5.6	67
9.3	81	7.2- 7.0	83	5.5	62
9.2	79	6.9	82	5.4	58
9.1	77	6.8	80	5.3	<b>53</b>
9.0	74	6.7	78	5.2	48
8.9	72	6.6	76	5.1	43
8.8	71	6.5	74	5.0	<b>3</b> 9
8.7	69	6.4	72	4.9	36
8.6	68	6.3	70	4.8	32
8.5	67	6.2	68	4.7	28
8.4	65	6.1	66	4.6	25
8.3	<b>63</b>	6.0	64	4.5	21
8.2	61	5.9	62	4.4	17
8.1	59	5.8	60	4.3	16
8.0	57	5.7	58	4.2	15
7.9	55	5.6	56	4.1	14
7.8	54	5.5	53	4.0	13
7.7	52	5.4	51	3.9	11
7.5	50	5.3	46	3.8	10
7.4	49	5.2	41	3.7	9
7.3	48	5.1	36	3.6	8 <b>7</b>
7.2	47	5.0	30	3.5	7
7.1	46	4.9	24	3.4	6
7.0	45	4.8	21	3.3	4
6.9-6.7	44	4.7	18	3.2	3
6.8-6.4	43	4.6	16	3.1	1
6.3-6.1	42	4.5	13	3.0 and	Under 1
6.0-5.9	41	4.4	10	Below	
5.8	38	4.3- 4.1	9		
5.7	<b>3</b> 5	4.0- 3.8	8		
5.6	31	3.7- 3.5	7		
5.5	28	3.4- 3.1	6		
5.4	24	3.0- 2.7	5		
<b>9</b>	• 7		_		



## WRAT - RANDOM SAMPLING December 1966-67

Local Percentiles

## GRADE 5 (Contd)

REAC	ING	SPE	SPELLING			ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile		Gr. Score	Percentile		
5.3	23	2.6-2.2	4					
5.2	21	2.1-1.9	3					
5.1	20	1.8	2					
5.0	19	1.7	1					
4.9	17	1.6 and	Under 1					
4.8	16	Below						
4.7	15							
4.6	13							
4.5	12							
4.4-4.2	10							
4.1-3.8	9							
3.7-3.5	8							
3.4-3.1	7							
3.0-2.8	6							
2.7	5				·			
2.6-2.5	4	•						
2.4	3							
2.3-2.2	2		•					
2.1	1	,						
2.0 and	Under 1							
Below								



December 1966-67

M-12

Gr. Score	herceutile	December 1	1900-07		
9.3 & up	99+	Local Perce	entiles		
9.2-9.1	98	CBVD	- 6		
9.0	97	GRADI			
8.9	<b>9</b> 6	READI	NG	ARITH	IMETIC
8.8-8.7	95	Gr. Score	Percentile	Gr. Score	Percentile
8.6	94	12.5	99+	8.0 & up	99≠
8.5	93	12.4-12.0	98	7 <b>.</b> 9 <b>-</b> 7.8	98
8.4-8.3	92	11.9-11.5	<del>9</del> 7	7.7	97
8.2	91	11.4-11.0	96	7.6-7.5	96
8.1	90	10.9-10.7	95	7.4	94
8.0-7.9	89	10.6-10.5	94	7.3	93
7.8	87	10.4-10.2	93	7.2	92
7.7	86	10.1- 9.8	92	7.1	91
7.6	84	9.7- 9.5	91	7.0	90
7.5	83	9.4- 9.2	90	6.9	89
7.4	81	9.1- 8.9	89	6.8	82
7.3	<b>7</b> 6	8.8	85	6.7	77
7.2	71	8.7	81	<b>6</b> ,6	70
7.1	<b>6</b> 6	8.6	78	6.5	68
7.0	60	8.5	74	6.4	<b>6</b> 6
6.9	55	8.4	70	6.3	6 <b>3</b>
6.8	54	8.3	69	6 <b>.2</b>	58
6 <b>.7</b>	52	8.2	68	6.1	53
6.6	51	8.1	66	6.0	49
6 <b>.5</b>	50	8.0	65	5.9	44
6.4	48	7.9	6 <b>3</b>	5.8	39
6 <b>.3</b>	46	7.8	58	5.7	33
6.2	43	7.7	55	5.6	30
6.1	41	7.6	49	5.5	26
6.0	39	7.5	45	5.4	22
5.9	37	7.4	41	5.3	21
5.8	34	7.3- 7.1	<b>3</b> 9	5.2	20
5.7	30	7.0- 6.9	38	5.1	19
<b>5.</b> 6	<b>2</b> 6	6.8- 6.7	37	5.0	17
5.5	22	<b>6.</b> 6	31	4.9	16
5.4	19	6.5	29	4.8	15
5.3	18	6.4	<b>2</b> 6	4.7	13
5.2	17	6.3	22	4.6	12
5.1	16	6.2	18	4.5	11
5.0-4.9	15	6.1	15	4.4	10
4.8	14	6.0	11	4.3-4.2	9
4.7-4.6	13	5.9	7	4.1-4.0	8
4.5	12	5.8- 5.7	6	3.9	7
4.4	11	5.6	5	3.8	6
4.3-4.2	10	5.5	4	3.7	5
4.1	9	5.4	3	<b>3.</b> 6	4
4.0	8	5.3	2	3.5-3.4	3
3.9-3.8	7	5.2	ī	3.3-3.2	2
3.7	6	5.1	- - 1	3.1	1
3.6	5	5.0 and	Under 1	3.0 and	Under 1
3.5-3.4	4	Below	J.,——	Below	च्याररणच्याच्याच्याच्या
3.3	3	2010#			
3.2	2				
7 1	_ 1				



1 Under 1

3.1 3.0 and Below

REAC	DING	SPEI	LING	ARITHM	ETIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score P	ercentile
15.9-15.7	99∙	10.4	99♦	10.9-10.8	99+
15.6-15.5	98	10.3	98	10.7	98
15.4-15.3	97	10.2	96	10.6-10.5	97
15.2-15.1	96	10,1	94	10.4-10.2	96
15.0-14.9	95	10.0	92	10.1- 9.9	95
14.8	94	9.9	90	9.8- 9.6	94
14.7-14.5	93	9.8	89	9.5- 9.3	93
14.4-14.3	92	9.7-9.6	88	9.2- 9.0	92
14.2-14.1	91	9.5	8 <b>7</b>	9.1- 8.7	91
14.0-13.9	90	9.4	86	8.6- 8.4	90
13.8	89	9.3	85	8.3	88
13.7-13.6	88	9.2	84	8.2	87
13.5	87	9.1	82	8.1	86
13.4-13.3	86	9.0	81	8.0	85
13.2	85	8.9	80	7.9	83
13.1-13.0	84	8.8	78	7.8	82
12.9-12.8	83	8.7	<b>77</b>	7.7	80
12.7-12.5	82	8.6	76	7.6	79
12.4-12.2	81	8.5	74	7.5	78
12.1-11.9	80	8.4	73	7.4	76
11.8-11.6	79	8.3	71	7.3	73
11.5-11.3	78	8.2	69	7.2	70
11.2-11.0	77	8.1	67	7.1	66
10.9	76	8.0	65	7.0	63
10.8	75	7.9	63	6.9	60
10.7	74	7.8	62	6.8	53
10.6	<b>7</b> 2	7.7	60	6.7	48
10.5	71	7.6	59	6.6	42
10.4	70	7.5	58	6.5	<b>3</b> 6
10.3	69	7.4	56	6.4	30
10.2	67	7.3	53	6.3	28
10.1	66	7.2	50	6.2	26
10.0	<b>65</b>	7.1	46	6.1	24
9.9	<b>63</b>	7.0	43	6.0	22
9.8	62	6.9	40	5.9	20
9.7	59	6.8	37	5.8	18
9.6	57	6.7	34	5.7	17
9.5	<b>5</b> 5	6.6	32	5.6	16
9.4	53	6.5	29	5.5	15
9.3	51	6.4	26	5.4	13
9.2	49	6.3	25	5.3	12
9.1	47	6.2	24	5.2	11
9.0	45	6.1	23	5.1	9
8.9	43	6.0	21	5.0	8
8.8- 8.7	42	5.9	20	4.9-4.5	6
8.6	0,1	5.8	19	4.4-3.7	5
8.5- 8.4	40	5.7	18	3.6-2.8	4
8.3	39	5.6	17	2.7-2.4	3

Percentile 2 1 Under 1

## MID-YEAR NORMS

#### WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

## GRADE 7 (Contd)

REAL	DING	SPELLING		ARITH	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percent
8.2-8.1	38	5.5	16	2.3	2
8.0	37	5.4	15	2.2-2.1	1
7.9	<b>3</b> 6	5.3	14	2.0 and	Under
7.8-7.7	35	5.2	13	Below	
7.6-7.5	34	5.1	12		
7.4	33	5.0	11		
7.3-7.2	32	4.9	10		
7.1	31	4.8	8		
7.0-6.9	<b>3</b> 0	4.7	7		
6.8	29	4.6	6		
6.7	27	4.5	4		
6.6	26	4.4	3		
6.5	24	4.3	2		
6.4	23	4.2	1		
6.3	20	4.1 and	Under 1		
6.2	18	Below			
6.1	15				
6.0	12				
5.9	10				
5.8	9 '				
5.7	8				
5.6-5.5	7				
5.4	6				
5.3-5.2	5				
5.1	4				
5.0	3				•
4.9-4.8	2				
4.7-4.6	1				
4.5 and	Under 1				



Below

Committee of the Commit

## GRADE B

READING		SPE	LLING	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
18.9-18.8	99♦	12.9-12.8	99+	14.9-14.7	99+	
18.7	98	12.7-12.6	98	14.6-14.4	<b>9</b> 8	
18.6-18.5	97	12.5-12.4	97	14.3-14.1	97	
18.4-18.3	96	12.3-12.2	96	14.0-13.7	96	
18.2	95	12.1-12.0	95	13.6-13.5	95	
18.1-18.0	94	11.9-11.8	94	13.4-13.2	94	
17.9-17.8	93	11.7-11.6	93	13.1-12.9	93	
17.7-17.2	92	11.5-11.4	92	12.8-12.6	92	
17.1-16.7	91	11.3-11.2	91	12.5-12.3	91	
16.6-16.2	90	11.1-11.0	90	12.2-12.1	90	
16.1-15.9	89	10.9	89	12.0-11.8	89	
15.8	88	10.8	88	11.7-11.4	88	
15.7	87	10.7	87	11.3-11.1	87	
15.6	86	10.6	86	11.0-10.9	86	
15.5	85	10.5	85	10.8	84	
15.4	84	10.4	8 <b>4</b>	10.7	33	
15.3	83	10.3	83	10.6	82	
15.2	82	10.2	82	10.5	80	
15.1	81				79	
		10.1	81	10.4		
15.0	80 30	10.0	80 <b>2</b> 0	10.3	78 76	
14.9	79 70	9.9	79	10.2	76 75	
14.8	78	9.8	77 26	10.1	75	
14.7	77 76	9.7	76	10.0	<b>73</b>	
14.6	76 25	9.6	74	9.9	72	
14.5	<b>75</b>	9.5	72	9.8	71	
14.4	74	9.4	70	9.7	70	
14.3	73	9.3	69	9.6	69	
14.2	72	9.2	67	9.5	68	
14.1	71	9.1	<b>65</b>	9.4	67	
14.0	70	9.0	<b>63</b>	9.3	<b>6</b> 6	
13.9-13.8	68	8.9	62	9.2	65	
13.7	67	8.8	<b>60</b> ,	9.1	64	
13.6-13.5	6 <b>6</b>	8.7	59	9.0	63	
13.4	65	8.6	<b>5</b> 8	8.9	62	
13.3-13.2	64	8.5	56	8.8	60	
13.1	63	8.4	<b>5</b> 5	8.7	<b>59</b>	
13.0-12.9	62	8.3	54	8.6	57	
12.8	60	8.2	<b>52</b>	8.5	56	
12.7	59	8.1	51	8.4	55	
12.6	58	8.0	49	8.3	53	
12.5	<b>5</b> 6	<b>7.</b> 9	48	8.2	<b>52</b>	
12.4	55	7.8	45	8.1	51	
12.3	54	7.7	42	8.0	49	
12.2	<b>52</b>	7.6	38	7.9	48	
12.1	51	7.5	35	7.8	46	
12.0	50	7.4	32	7.7	44	
11.9	48	7.3	29	7.6	43	
11.8	47	7.2	26	7.5	41	
		· • —				

#### MID-YEAR NORMS WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

GRADE 8 (Contd)

### SPELLING   11.7	BEADING		<u>(Contd)</u> SPELLING		ΛΡΙΊ	ARITHMETIC	
11.7 46 7.1 23 7.4 39 11.6 45 7.0 20 7.3 37 11.5 44 6.9 17 7.2 36 11.4 43 6.9 17 7.2 36 11.3 42 6.7 14 7.0 32 11.2 41 6.6 13 6.9 30 11.1 40 6.5 11 6.8 28 11.0 39 6.4 10 6.7 25 10.9 37 6.3 9 6.6 23 10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.2 7 6.5 21 10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.5-5.7 5 10.0 28 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.8-9.7 26 5.4-5.3 2 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.5-8.4 17 8.3 16 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
11.6							
11.5							
11.4							
11.3							
11.2 41 6.6 13 6.9 30 11.1 40 6.5 11 6.8 28 11.0 39 6.4 10 6.7 25 10.9 37 6.3 9 6.6 23 10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 5.6 4 9.9 27 9.8-9.7 26 5.4-5.3 2 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-6.7 19 8.6 18 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
11.1 40 6.5 11 6.8 28 11.0 39 6.4 10 6.7 25 10.9 37 6.3 9 6.6 23 10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 3.9 27 9.8-9.7 26 5.4-5.3 2 9.6 25 5.4-5.3 2 9.1-9.0 21 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.2-8.1 15 8.0 14 7.9 13 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
11.0 39 6.4 10 6.7 25 10.9 37 6.3 9 6.6 23 10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.2 7 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.1 29 8elow 5.8-5.7 5 10.0 28 5.4-5.3 1 5.9 6 10.1 29 8elow 5.5-5.5 3 9.8-9.7 26 9.6 25 5.4-5.3 2 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.5 8.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
10.9 37 6.3 9 6.6 23 10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.5 3 9.8-9.7 26 5.6 4 9.6 25 5.5 3 9.8-9.7 26 5.4-5.3 2 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.9 20 8.8-8.7 19 8.9 20 8.8-8.1 15 8.2-8.1 15 8.2-8.1 15 8.2-8.1 15 8.2-8.1 15 8.2-8.1 15 8.2-8.1 15 8.2-8.1 15 8.3 16 8.2-8.1 15 8.3 16 8.2-8.1 15 8.3 16 8.2-8.1 15 8.3 16 8.2-8.1 15 8.3 16 8.4 17 8.5 18 8.							
10.8 36 6.2 7 6.5 21 10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 9.9 27 5.4-5.3 2 9.8-9.7 26 5.5 3 9.8-9.7 26 5.4-5.3 2 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
10.7 35 6.1 6 6.4 18 10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.6 4 9.9 27 5.5 5.6 4 9.9 27 5.5 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 6.3 16 8.2-8.1 15 6.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1				7			
10.6 34 6.0 4 6.3 16 10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.4-5.3 2 9.8-9.7 26 5.5 3 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
10.5 33 5.9-5.8 3 6.2 14 10.4 32 5.7-5.5 2 6.1 11 10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.4-5.3 2 9.6 25 5 5.4-5.3 2 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.6 4 9.9 27 5.4-5.3 2 9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.6-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
10.3 31 5.4-5.3 1 6.0 9 10.2 30 5.2 and Under 1 5.9 6 10.1 29 Below 5.8-5.7 5 10.0 28 5.6 4 9.9 27 5.6 4 9.9 27 5.4-5.3 2 9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.6-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1				2		•	
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1						6	
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1				UIIGO. I		5	
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1			Delow			4	
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1						3	
9.6 25 5.2 1 9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1						2	
9.5-9.4 24 5.1 and Under 1 9.3 23 9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
9.3 23 Below  9.2 22  9.1-9.0 21  8.9 20  8.8-8.7 19  8.6 18  8.5-8.4 17  8.3 16  8.2-8.1 15  8.0 14  7.9 13  7.8 12  7.7 11  7.6 10  7.5 9  7.4 8  7.3 7  7.2 6  7.1 5  7.0 4  6.9-6.8 3  6.7-6.5 2  6.4-6.3 1  6.2 and Under 1							
9.2 22 9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
9.1-9.0 21 8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.9 20 8.8-8.7 19 8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.8-8.7							
8.6 18 8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.5-8.4 17 8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.3 16 8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.2-8.1 15 8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
8.0 14 7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.9 13 7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.8 12 7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.7 11 7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.6 10 7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.5 9 7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.4 8 7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.3 7 7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.2 6 7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.1 5 7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
7.0 4 6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
6.9-6.8 3 6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
6.7-6.5 2 6.4-6.3 1 6.2 and Under 1							
6.4-6.3 1 6.2 and Under 1							
6.2 and Under 1							
•		_					
ww = U = =		*					



## WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

READING		SPE	LLING	ARI	ARITHMETIC		
Gr. Score Per	rcentile	Gr. Score	Percentile	Gr. Score	Percentile		
15.9	99+	14.9-14.7	99•	12.9-12.6	99+		
15.8	98	14.6-14.4	98	12.5-12.4	98		
15.7	97	14.3-14.1	97	12.3-12.1	97		
15.6	96	14.0-13.8	96	12.0-11.9	96		
15.5	95	13.7-13.5	95	11.8-11.7	95		
15.4	94	13.4-13.1	94	11.6	94		
15.3	<b>93</b>	13.0-12.9	93	11.5	93		
15.2	92	12.8	92	11.4-11.3	92		
15.1	91	12.7-12.6	91	11.2	91		
15.0	90	12.5	90	11.1	90		
14.9	89	12.4-12.3	89	11.0-10.9	89		
14.8	88	12.2	88	10.8	87		
14.7	87	12.1-12.0	87	10.7	85		
14.6	86	11.9	86	10.6	84		
14.5	85	11.8-11.7	85	10.5	82		
14.4	84	11.6	84	10.4	80		
14.3	83	11.5-11.4	83	10.3	78		
14.2	82	11.3	82	10.2	76		
14.1	81	11.2	8 <b>1</b>	10.1	75		
14.0	80	11.1-11.0	80	10.0	7 <b>3</b>		
13.9	79	10.9	79	9.9- 9.8	73 71		
13.8	78	10.8	78	9.7- 9.6	70 70		
13.7	77	10.7-10.6	77	9.5- 9.3	69		
13.6	76	10.5	76	9.2- 9.1	68		
13.5	75	10.4-10.3	75	9.0- 8.9			
13.4	74	10.2	74		6 <b>7</b>		
13.3	73	10.1	73	8.8	65 63		
13.2	71	10.0- 9.9	72	8.7	62 60		
13.1	70	9.8	72 71	8.6	60 53		
13.0	69	9.7	68	8.5	57 55		
12.9-12.7	68	9.6	67	8.4	55 52		
12.6-12.4	67	9.5	65	8.3	<b>52</b>		
12.3-12.1	66	9.4	<b>63</b>	8.2	50 45		
12.0-11.9	65			8.1	47		
11.8-11.7	64	9.3	62 60	8.0	45		
11.6	63	9.2	60 50	7.9	42		
11.5	62	9.1	58 53	7.8	40		
		9.0	57 55	7.7	38		
11.3	61 60	8.9	55 57	7.6	36		
11.2	60 50	8.8	<b>53</b>	7.5	34		
11.1-11.0	59	8.7	51	7.4	32		
10.9-10.8	58 57	8.6	49	7.3	<b>30</b>		
10.7-10.5	57 56	8.5	47	7.2	27		
10.4-10.2	56	8.4	45	7.1	25		
10.1- 9.9	55 50	8.3	43	7.0	23		
9.8	52	8.2	41	6 <b>.9-</b> 6.8	21		
9.7	49	8.1	38	6.7	20		
9.6	47	8.0	36	6.6- 6.5	19		



WRAT - RANDOM SAMPLING
December 1966-67
Local Percentiles

#### GRADE 9 (CONTD)

READING		SPELLING		ARI1	ARITHMETIC	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
9.5	44	7.9	34	6.4-6.3	18	
9.4	41	7.8	32	6.2	17	
9.3	38	7.7	31	6.1-6.0	16	
9.2	<b>3</b> 6	7.6	30	5.9-5.8	15	
9.1	<b>33</b>	7.5	29	5.7-5.6	14	
9.0	30	7.4	27	5.5	13	
8.9	2.7	7.3	26	5.4-5.3	12	
8.8-8.7	26	7.2	24	5.2-5.1	11	
8.6	<b>25</b>	7.1	23	5.0	10	
8.5-8.4	24	7.0	22	4.9-4.8	9	
8.3	23	6.9	20	4.7-4.6	8	
8.2-8.1	22	6.8	19	4.5	7	
8.0	21	6.7	17	4.4-4.3	6	
7.9	20	6.6	16	4.2-4.1	5	
7.8-7.7	19	6.5	15	4.0	4	
7.6	18	6.4	13	3.9-3.7	4 3	
7.5-7.4	17	6 <b>.3</b>	12	3.6-3.5	2	
7.3	16	6.2	10	3.4-3.3	1	
7.2-7.1	15	6.1	9	3.2 and	Under 1	
7.0	14	6.0	8	Below		
6 <b>.</b> 9	13	5.9-5.7	6			
6.8-6.7	12	5.6-5.4	5			
6.6	11	5.3-5.1	4			
6.5-6.4	10	5.0-4.8	3			
6.3	9	4.7-4.5	2			
6.2-6.1	8	4.4-4.3	1			
6.0	7	4.2 and	Under 1			
5.9	6	Below				
5.8-5.7	5					
5.6	4					
5.5	4 3 2			,		
5.4-5.3	2					
5.2	1 -					
5.1 and	Under 1					
D = 1						



Below

address of a h

## WRAT - RANDOM SAMPLING December 1966-67

Local Percentiles

READ	READING SPELLING		ARITHMETIC		
Gr. Score	Percent.15	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>
14.9	99+	13.9-13.8	99+	14.9-14.1	99+
14.8	98	13.7-13.6	98	14.0-13.1	98
14.7	97	13.5	97	13.0-12.3	97
14.6	96	13.4-13.3	96	12.2-11.9	96
	94	13.2	95	11.8-11.7	95
14.5	93	13.1	94	11.6	94
14.4	92	13.0-12.9	93	11.5	93
14.3	90	12.8	91	11.4-11.3	92
14.2	89	12.7	89	11.2-11.1	91
14.1		12.6	8 <b>7</b>	11.0	90
14.0	88	12.5	85	10.9	89
13.9	86 85	12.4	83	10.8	87
13.8	85		81	10.7	A5
13.7	84	12.3	79		•
13.6	83	12.2		10.5	81
13.5	82	12.1 12.0	74	10.4	<b>7</b> 9
13.4	81	11.9	73	10.3	77
13.3	<b>7</b> 9	11.8	71	10.2	75
13.2	<b>7</b> 0	11.7	70	10.1	<b>7</b> 2
13.1	77	11.6	68	10.0	70
13.0	<b>76</b>	11.5	67	9.9	68
12.9	75	11.4	65	9.8	67
12.5	73	11.3	64	9.7	6 <b>6</b>
12.7	71	11.2	63	0 6	<b></b>
12.6	68	11.2		<b>9.</b> 5	64
12.5	66		60 50	9.4	<b>63</b>
12.4	63	10.9	58	9.3	62
11.3	J <del>y</del>	10.8	<b>57</b>	9.2	61
12.1	56 5.4	10.7	<b>56</b>	9.1	60
12.0	54	10.6	<b>55</b>	9.0	59
11.9	51	10.5	54	8.9	58
11.8	49	10.4	53	8.8	56
11.7	48	10.3	<b>5</b> 2	8.7	54
11.6	46	10.2	51	8.6	52
11.5	44	10.1	50	8.5	50
11.4	43	10.0	49	8.4	48
11.3	41	9.9	48	8.3	46
11.2	39	9.8	46	8.2	44
11.1	38	9.7	45	8.1	42
11.0	36	9.6	44	8.0	<b>3</b> 9
10.9	34	9.5	42	7.9	37
10.8-10.7	33	9.4	41	7.8	35
10.6	<b>3</b> 2	9.3	40	7.7	<b>3</b> 2
10.5-10.4	31	9.2	38	7.6	30
10.3	30	9.1	37	7.5	28
10.2	29	9.0	<b>3</b> 6	7.4	25
10.1-10.0	28	8.9-8.8	34	7.3	23
			<b>5</b> 7	1.5	43



## WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

## GRADE 10 (CONTD)

READING SPELLING		LING	<u> ARITHMETIC</u>		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
9.9	27	8.7-8.5	33	7.2	21
9.8	26	8.4-8.2	<b>3</b> 2	7.1	18
9.7	24	8.1-7.9	31	7.0	16
9.6	23	7.8	29	6.9	13
9.5	22	7.7	27	6.8	12
9.4	20	7.6	25	6.7	10
9.3	19	7.5	24	6.6	9
9.2	17	7.4	22	6.5	7
9.1	16	7.3	20	6.4	6
9.0	15	7.2	18	6.3	4
8.9-8.7	13	7.1	17	6.2	2
8.6-8.4	12	7.0	15	6.1	1
8.3-8.1	11	6.9	13	6.0 and	Under l
8.0-7.9	10	6.8-6.7	12	Below	
7.8-7.7	9	6.6	11		
<b>7.</b> 6	8	6.5-6.4	10		
7.5-7.4	7	6.3	9		
7.3	6	6.2-6.1	8		
7.2-7.1	5	6.0	7		
7.0	4	5.9-5.7	6		
6.9-6.8	3	5.6-5.4	5		
6.7-6.6	2	5.3-5.0	4		
6.5-6.3	1	4.9-4.8	. 3		
6.2 and	Under 1	4.7-4.5	2		
Below		4.4-4.3	1		
		4.2 and	Under 1		
		Below			



READ	ING	SPEL	LING	ARITHMETIC	
Gr. Score	Parcentile	Gr. Score	Percentile	Gr. Score	Percentile
18.9	99+	15.9-15.7	994	13.9-13.6	99+
18.8	97	15.6-15.4	98	13.5-13.4	98
18.7	95	15.3-15.1	97	13.3-13.1	97
18.6	93	15.0-14.9	<del>9</del> 6	13.0-12.8	96
18.5	92	14.8-14.6	<del>9</del> 5	12.7-12.6	95
18.4	90	14.5-14.3	94	12.5-12.3	94
18.3	88	14.2-14.1	93	12.2-12.0	93
18.2	86	14.0-13.9	92	11.8	<del>9</del> 2
18.1	84	13.8	91	11.7	91
18.0	82	13.7	89	11.6	90
17.9-17.6	80	13.6	88	11.5	8 <del>9</del>
17.5-17.1	<b>79</b>	13.5	86	11.4	88
17.0-16.6	78	13.4	84	11.3-11.2	87
16.5-16.1	77	13.3	83	11.1	86
16.0-15.9	76	13.2	81	11.0	85
15.8	75	13.1	80	10.9	84
15.7	73	13.0	78	10.8	82
15.6	72	12.9	77	10.7	79
15.5	70	12.8	75	10.6	76
15.4	69	12.7	74	10.5	73
15.3	67	12.6	72	10.4	71
15.2	66	12.5	<b>7</b> 0	10.3	68
15.1	64	12.4	69	10.2	65
15.0	63	12.3	67	10.1	63
14.9-14.8	61	12.2	66	10.0	60
14.7-14.6	60	12.1	64	<b>9.</b> 9	57
14.5-14.3	<b>5</b> 9	12.0	<b>63</b>	9.8	55
14.2-14.0	58	11.9	61	9.7	<b>53</b>
13.9-13.8	57	11.8	60	9.6	51
13.7-13.5	<b>56</b>	11.7	59	9.5	48
13.4-13.3	55	11.6	58	9.4	46
13.2-13.0	54	11.5	57	9.3	44
12.9-12.8	<b>53</b>	11.4	56	9.2	41
12.7-12.5	52	11.3	54	9.1	39
12.4-12.2	51	11.2	53	9.0	37
12.1-11.9	50	11.1	<b>52</b>	8.9	34
11.8	48	11.0	51	<b>8.8</b>	<b>33</b>
11.7	47	10.9	50	8.7	<b>32</b> .
11.6	46	10.8-10.7	49	8.6	31
11.5	45	10.6-10.4	48	8.5	30
11.4	44	10.3-10.1	47	8.4	29
11.3	43	10.0- 9.9	46	8.3	27
11.2	42	9.8	44	8.2	26
11.1	40	9.7	43	8.1	25
11.0	39	9.6	41	8.0	24
10.9-10.7	38	9.5	40	7.9	23
10.6-10.2	37	9.4	38	7.8	22



## WRAT - RANDOM SAMPLING December 1966-67 Local Percentiles

GRADE 11 (Contd) SPELLING

REAL	DING	SPELLING				
Gr. Score	Percentile	Gr. Score	Percentile			
10.1- 9.7	36	9.3	36			
9.6- 9.2	35	9.2	<b>3</b> 5			
9.1- 8.9	34	9.1	33			
8.8	32	9.0	<b>3</b> 2			
8.7	30	8.9	30			
8.6	28	8.8	29			
8.5	27	8.7-8.6	28			
8.4	25	8.5	27			
8.3	2 <b>3</b>	8.4-8.3	26			
8.2	21	8.2	25			
8.1	19	8.1	24			
8.0	17	8.0-7.9	2 <b>3</b>			
7.9- 7.8	15	7.8-7.7	2 <b>2</b>			
7.7- 7.6	14	7.6-7.4	21			
7.5- 7.3	13	7.3-7.1	20			
7.2- 7.0	12	7.0-6.9	19			
6.9- 6.8	11	6.8-6.6	18			
6.7- 5.5	10	6.5-6.3	17			
6.4- 6.3	9	6.2-6.1	16			
6.2- 6.0	8	6 <b>.</b> 0 <b>-5.</b> 8	15			
5.9	7	5.7-5.6	14			
5.8- 5.7	6	5.5-5.3	13			
5.6	5	5.2-5.0	12			
5.5	4	4.9	11			
5.4	3	4.8	10			
5.3	2	4.7	8			
5.2- 5.1	1	4.6	7			
5.0 and	Under 1	4.5	6			
Below		4.4	4			
		4.3	3			
		4.2	2			
		4.1	1			
		4.0 and	Under 1			
		Below				

	ARITHMETIC						
Gr.	Score	Percentile					
	7.7	20					
	7.6	19					
	7.5	18					
	7.4	17					
	7.3	16					
	7.2	15					
	7.1	14					
	7.0	12					
	6.9	11					
	6.8	10					
	6.7	9					
	6.6	7					
	6.5	6					
	6.4	5					
	6.3	3					
	6.2	2					
	6.1	1					
6	.0 and	Under 1					
6	Below						



## WRAT - RANDOM SAMPLING December 1966-67

December 1966-67 Local Percentiles GRADE 12

READI	READING SPELLING		ING	ARITHMETIC	
	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
18.9 - 18.6	99+	15.9 - 15.8	99+	16.9 - 16.0	99+
18.5 - 18.4	98	15.7	<b>9</b> 8	15.9 - 15.3	<del>9</del> 8
18.3 - 18.1	97	15.6	96	15.2 - 14.5	97
18.0 - 17.9	96	15.5	95	14.4 - 13.9	96
17.8 - 17.6	95	15.4	94	13.8 - 13.6	95
17.5 - 17.3	94	15.3	93	13.5 - 13.3	94
17.2 - 17.0	9· <b>3</b>	15.2	<b>9</b> 2	13.2 - 13.1	93
16.9	92	15.1	91	13.0 - 12.9	92
16.8 - 16.7	91	15.0	90	12.8	91
16.6	90	14.9	89	12.7	8 <b>9</b>
16.5	8 <b>9</b>	14.8	87	12.6	88
16.4 - 16.3	88	14.7	86	12.5	86
16.2	87	14.6	84	12.4	8 <b>5</b>
16.1	86	14.5	83	12.3	8 <b>3</b>
16.0 - 15.9	85	14.4	81	12.2	82
15.8	84	14.3	80	12.1	81
15.7	82	14.2	<b>7</b> 8	12.0	80
15.6	80	14.1	77	11.9	77
15.5	79	14.0	75	11.8	76
15.4	<b>7</b> 8	13.9	74	11.7	75
15.3	<b>76</b> .	13.8 - 13.6	73	11.6	74
15.2	75	13.5 - 13.3	72	11.5	73
15.1	73	13.2 - 13.1	71	11.4	72
15.0	72	13.0 - 12.9	70	11.3	71
14.9	70	12.8	69	11.2	<b>7</b> 0
14.8	69	12.7	68	11.1	68
14.7	68	12.6	67	11.0	6 <b>7</b>
14.6	67	12.5	66	10.9	6 <b>6</b>
14.5	66	12.4	64	10.8	65
14.4	65	12.3	6 <b>3</b>	10.7	64
14.3	64	12.2	62	10.6	<b>63</b>
14.2	63	12.1	61	10.5	<b>62</b>
14.1	62	12.0	<b>60</b>	10.4	61
14.0	60	11.9 - 11.8	59	10.3	60
13.9	59	11.7 - 11.6	58	10.2	59
13.8 - 13.7	58	11.5 - 11.3	57	10.1	
13.6	57	11.2 - 11.0	56	10.0	56
13.5	56	10.9	55	9.9	<b>55</b>
13.4 - 13.3	<b>5</b> 5	10.8	54	9.8	54
13.2	54	10.7	52	9.7	5 <b>3</b>
13.1	53	10.6	50	9.6	52
13.0	52	10.5	48	9.5	51 50
12.9 - 12.8	51 50	10.4	46	9.4	50
12.7 - 12.5	50	10.3	44	9.3	48
12.4 - 12.2	49	10.2	42	9.2	47
12.1 - 11.9	48	10.1	41	9.1	46
11.8	47	10.0	<b>39</b>	9.0	45
11.7	46	9.9	37	8.9 - 8.8	
11.6	45	9.8	36	8.7 - 8.5	
11.5	43	9.7	35	8.4 - 8.3	42



M-24

MID-YEAR NORMS
WRAT - RANDOM SAMPLING
December 1966-67
Local Percentiles
GRADE 12
(Cont)

READING SPELLING		LING .	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
11.4	42	9.6	34	8.2-8.0	41
11.3	41	9.5	33	7.9	40
11.2	40	9.4-9.3	32	7.8	39
11.1	39	9.2	31	7.7	38
11.0	<b>3</b> 8	9.1	30	7.6	37
10.9	37	9.0	29	7.5	36
10.8	<b>3</b> 5	8.9	28	7.4	<b>3</b> 5
10.7	34	8.8	26	7.3	34
10.6	32	8.7	25	7.2	33
10.5	31	8.6	24	7.1	31
10.4	29	8.5	<b>2</b> 2	7.0	30
10.3	28	8.4	21	6.9	29
10.2	26	8.3	20	<b>6.</b> 8	27
10.1	25	8.2	19	6.7	24
10.0	23	8.1	17	6.6	21
9 <b>.9-</b> 9.8	22	8.0	16	6.5	19
9.7~ 9.6	21	7.9-7.7	14	6.4	16
9.5- 9.3	20	7.6-7.5	13	6.3	14
9.2- 9.0	19	7.4-7.2	12	6.2	11
8 <b>.9</b>	18	7.1-6.9	11	6.1	9
8.8	17	6.8-6.6	10	6.0	
8.7	15	6.5-6.3	9	5.9-5.8	6 3 2
8.6	14	6.2-6.0	8	5.7-5.5	2
8.5	12	5.9-5.7	7	5.4-5.2	1
8.4	11	5.6-5.5	6	5.1 and	Under 1
8 <b>.3</b>	9	5.4-5.2	5	8elow	
8.2	8	5.1-5.0	4		
8.1	6	4.9-4.8	3		
8.0	5	4.7-4.5	2		
7.9~ 7.8	3	4.4-4.3	1		
7.7- 7.5	2	4.2 and	Under 1		
7.4- 7.2	1	Below			
7.1 and Below	Under 1				



#### END-YEAR STATISTICS (.7)

#### WIDE RANGE ACHIEVEMENT TEST

#### RANDOM SAMPLE

GRADE	READ	ING	SPELLI	SPELLING		
LEVEL	X .	XGs BGs	X	XGe eGe	X	
1	2.19 .84	1.54 1.20	2.16 .07	1.31 1.27	2,25 .50	
2	3.92 1.32	4.38 2.57	3.30 .94	1.42 1.04	2,75 .59	
. 3	5.35 2.50	3.40 4.31	4.46 1.36	1.30 1.14	4.30 .52	
4	6.25 2.24	4.52 2.73	5.00 1.13	3.00 1.99	4.57 .59	
5	7.20 2.05	5.58 3.31	6.16 1.53	2.73 2.01	5.61 .91	
6	7.50 2.23	5.76 3.78	6.49 1.74	3.32 2.75	5.98 1.15	
7	10.77 3.81	7.15 3.54	8.40 2.22	3.95 1.81	7.99 2.07	
8	10.07 2.69	6.49 3.28	9.40 1.61	5.04 1.51	9.00 1.80	
9	10.91 2.57	5.63 2.65	9.83 1.80	6.09 2.33	8.86 2.47	
10	13.40 3.51	7.07 3.34	10.05 2.28	6.01 2.40	9.03 1.90	
11	12,61 3.96	6.45 2.99	10.48 2.68	5,85 3,21	9.95 3.13	
12	12.44 3.18	5.72 2.93	10.82 2,31	5.55 2.47	9.38 1.97	

X & Mean (Average Score)

For example, the average 3rd grader received a reading score of 5.3 or 5.4, and measured about 3.4 years between the basal and maximal score on Reading. Sixty-seven percent of the 3rd graders had reading scores between 2.8 and 7.8. (Use the same approach to analyse the Spelling scores and Arithmetic scores.)

a: Standard Deviation

XGe : Mean Grade Span (Average Grade Span)

<sup>•</sup>G• : Standard Deviation of Grade Span

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 1

READ	ING	· SPEL	LING	ARITH	METIC
Gr. Score		Gr. Score		Gr. Score	Percentile
4.3-4.1	. 99	3.0	99	2.8	99
4,0	98	2.9	93	2.7	96
3.9-3.8	97	2.8	92	2.6	94
3.7	96	2.7	89	2.5	91
3.6	95	2.6	79	2.4	<b>8</b> 9
<b>3.</b> 5 `	94	2.5	7,2	2.3	67
3.4	93	2.4	<b>6</b> 5	2.2	45
3.3	92	2.3	<sub>.</sub> 58	2.1	25
3.2	9 <b>0</b>	2.2	48	2.0	23
3.1	89	2.1	42	1.9	20
3 <b>.</b> 0	86	2.0	37	1.8	10
2.9	, 8 <b>3</b>	1.9	36	1.7	8
2.8	79	1.8	34	1.6	6
2.7	78	1.7	27	1.5	5
2.6	77	1.6	22	1.4	3
2.5	75	1.5	17	1.3	2
2.4	72	1.4	13	1.2	1
2.3	69	1.3	11	1.1 and	Under
2.2	65	1.2	10	Below	1
2.1	56	1.1	5		
2.0	<b>4</b> 6	1.0	1		
1.9	37	K.9 and	Under		
1.8	33	Below	1		
1.7	30				
1.6	27				
1.5	24	·			
1.4	2 <b>2</b>				
1.3	18				
1.2	16,				
1.1	13				
1.0	10				
K.9	9				
K.8-K.7	8 7				
K.6-K.5					• •
K.4	6 . <b>5</b>				
K.3	3				
K.2	1				
K.1 K.O and.	. Under	•			
helou	, Olimer	•			

1

below

## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPE	LLING	ARITH	ARITHMETIC	
Gr. Score	Percentile	Gr. Score	Percentile		Percentile	
7.5-Up	99	5.5	99	<b>3.</b> 9	99	
7.4-7.3	98	5.4	97	<b>3.</b> 8	98	
7.2	97	5 <b>.3</b>	95	<b>3.</b> 7	9 <b>4</b>	
7.1-7.0	96	5,2	92	<b>3.</b> 6	92	
6.9-6.8	95	5,1	91	<b>3.</b> 5	9 <b>0</b>	
6.7	9 <b>4</b>	5.0	89	3.4	89	
6,6-6.5	9 <b>3</b>	4.9-4.8	88	3.3	87	
6 <b>.4-</b> 6 <b>.3</b>	92	4.7~4.5	87	3.2	8 <b>5</b>	
6.2-6.0	91	4.4-4.2	86	3.1	<b>7</b> 8	
5.9-5.7	90	4.1-4.0	85	3.0	70	
5.6-5.4	89	<b>3.</b> 9	84	2.9	61	
5 <b>.3-</b> 5.2	88	<b>3.</b> 8	82	2.8	51	
5.1	87	3.7	81	2.7	44	
5.0	86	<b>3.</b> 6	77	2.6	37	
4.9	85	<b>3.</b> 5	73	2.5	<b>3</b> 6	
4.8	84	3.4	68	2.4	<b>35</b>	
4.7	8 <b>3</b>	3.3	6 <b>4</b>	2.3		
4.6	81	3.2	60	2.3	34 33	
4.5	77	3.1	55	2.1	<b>33</b>	
4.4	71	3.0	<b>4</b> 8		20	
4.3	66			2.0	14	
4.2	65	2.9	40	1.9	11	
4.1	6 <b>4</b>	2.8	<b>33</b>	1.8	10	
4.0	62	2.7	28	1.7	8	
3.9		2.6	23	1,6	7	
3.9 <b>3.</b> 8	56 ·	2.5	19	1.5	6	
	50	2.4	16	1.4	5	
<b>3.</b> 7 <b>3.</b> 6	44	2.3	13	1.3	4	
	<b>42</b>	2.2	11	1.2	2	
<b>3.</b> 5	<b>3</b> 9	2.1	4	1.1	1	
3.4	<b>3</b> 5	2.0	1	1.0 and	Under	
<b>3.</b> 3	34	1.9 and	Under	Below	1	
3.2	<b>3</b> 2	Below	1			
3.1	29					
<b>3.</b> 0	27	•				
2.9	24					
2.8	22					
2.7	20					
2.6	17					
2.5	14					
2.4	12					
2.3	10		•			
2.2	7					
2.1	6					
2.0	5					
1.9	3					
1.8	2					
1.7	1					
1.6 and	Under					
Below	1					

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ	ING	SPEL	SPELLINGARI		THMETIC	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
11.4-11.0	99	12.9-11.2	99	6.1-5.9	99	
10.9-10.6	98	11.1- 9.6	98	5.8-5.7	98	
10.5-10.2	97	9 <b>.5-</b> 7.7	97	5.6-5.4	97	
10.1- 9.9	96	7.6- 6.4	96	5.3-5.2	96	
9.8	95	6 <b>.3</b>	94	5.1	9 <b>2</b>	
9.7- 9.6	9 <b>4</b>	6.2	9 <b>3</b>	5.0	8 <b>8</b> .	
9.5	9 <b>3</b>	6.1	91	4.9	84	
9.4	92	6.0	9 <b>0</b>	4.8	81	
9.3	91	<b>5.</b> 9	88	4.7	<b>7</b> 7	
9.2- 9.1	90	<b>5.</b> 8	85	4.6	73	
9.0	89	5.7	82	4.5	6 <b>8</b>	
8.9	88	5.6	79	4.4	62	
8.8	8 <b>7</b>	5.5	76	4.3	57	
8.7- 8.6	86	5.4	7 <b>3</b>	4.2	51	
8.5	85	5 <b>.</b> 3	71	4.1	44	
8.4	84	5.2	70	4.0	38	
8.3-8.2	8:3	5.1	68	<b>3.</b> 9	30	
8.1	82	5.0	66	3.8	• 21	
8.0	81	<b>4.</b> 9	65	3.7	12	
7.9	80	<b>4.</b> 8	6 <b>4</b>	<b>3.</b> 6	8	
7.8- 7.7	79	4.7- 4.6	6 <b>3</b>	3.5	6	
7.6	78	4.5	62	3.4	6 <b>3</b>	
7.5	77	4.4	61	3.3	2	
7.4	76	4.3	60	<b>3.</b> 2	1	
7.3- 7.2	75	4.2	<b>5</b> 8	3.1 and	Under	
7.1	74	4.1	57	Below	1	
7.0- 6.9	73	4.0	55			
6.8	'72	<b>3.</b> 9	5 <b>3</b>			
6.7	71	<b>3.</b> 8	50			
6.6- 6.5	<b>7</b> 0	3.7	47	•		
6.4	69	<b>3.</b> 6	43			
6.3	68	<b>3.</b> 5	40			
6.2- 6.1	6'7	3.4	<b>3</b> 7			
6,0	66	3.3	33			
<b>5,</b> 9	<b>65</b>	3.2	30	opt.		
5.8	6 <b>4</b>	3.1	26			
5,7. <b>5.</b> 6	63	3.0	2 <b>3</b>			
5 <b>.5</b>	62	2.9	19			
5.4	61	2.8	18			
5.3- 5.2	60	2.7	16			
5. l	<b>5</b> 9	2.6	1.4			
5.0	58	2.5	13			
<b>4.</b> 9	57	2.4	11			
4.8	<b>5</b> 6	2.3- 2.2	10			
4.7	54	2.1	9			
4.6	<b>5</b> 3	2.0	8			
4.5	51	1.9	7			



## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 3 (Contd)

READING		SPEL	SPELLING			ARITHMETIC		
Gr. Score	Percentile	Gr. Score			Gr. Score	Percentile		
4.4	50	1.8-1.7	6		•			
4.3	48	1.6	5					
4.2	47	1.5	4.					
4.1	45	1.4	3			•		
4.0	44	1.3	2					
3.9	42	1.2-1.1	1					
3.8	39	1.0 and	Under					
3.7	36	Below	1			,		
<b>3.</b> 6	33	•						
<b>3.</b> 5	30							
3.4	26				,	•		
3.3	23	•			•			
3.2	21							
3.1	18		•					
3.0	15							
2.9	11							
2.8	10							
2.7	8					•		
2.6	7	•	•		•			
2.5	5 <b>3</b>							
2.4	3							
2.3	2							
2.2	1							
2.1 and	Under							
Below	1							



## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPEL	SPELLING		ARITHMETIC		
Gra Score	Percentile	Gr. Score			Percentile		
1278 & Up	. 99	6.9	99	5.9	99		
1277-11.9	98	6.8	97	5.8	97		
11:8-11.0	97	6.7	94	5.7	95		
10.9-10.2	96	6,6	92	5.6	92		
10.1	95	6.5	90	5.5	90		
10.0	94	6.4	8 <b>9</b>	5,4	89		
9.9	93	6.3	88	5.3	88		
9.8- 9.7	92	6,2	86	5.2	81		
9,6- 9.5	91	6,1	85	5.1	<b>75</b>		
9.4- 9.2	<b>9</b> 0	6.0	84	5.0	68		
9.1- 9.0	89	5 <b>.</b> 9	<b>8</b> 0	4.9	61		
8.9- 8.7	88	5.8	76	4.8	53		
8.5- 8.5	87	5.7	72	4.7	44		
8.4- 8.2	86	5.6	68	4.6	42		
8.1- 8.0	85	5.5	64	4.5	40		
7.9- 7.7	84	5.4	60	4.4	38		
7.6	<b>8</b> 3	5.3	5 <b>7</b>	4.3	36		
7.5	82	5.2	54	4.2	34		
7.4	81	5.1	52	4.1	32		
7 <sub>♥</sub> 3	80	5.0	50	4.0	27		
7.2	<b>7</b> 9	4.9	49	3.9	24		
7,1	78	4.8	48	3.8	20		
7.0	75	4.7	44	3.7	19		
6.9	<b>7</b> 3	4.6	40	3.6-3.5	18		
6.8		4.5	36	3.4	17		
6.7	68	4.4	33	3.3-3.2	16		
6.6		4.3	30	3.1	14		
6.5		4.2	28	3.0,			
6.4		4.1	26	2.9	12		
5,3		4.0	24	2.8	10		
6.2		3.9	23	2.7	9 8		
6.1		3.8	21	2.6			
6.0		3.7	19	2.5	6		
5.9		3.6	18	2.4	5		
5,8	53	<b>3</b> •5	16	2.3	4		
5,7		3.4	14	2.2	2 1		
5,6		3.3	13	2,1			
<b>5</b> .5		3,2	11	2.0 and	Under		
5.4	47	3.1	10	Below	1		
5.3	A	3.0	8				
5.2	44	2 . 9	6				
5.1		2,8	5				
5.0		2.7	4				
4,9		2.5	3				
4.B	4	2.5-2.4	2				
		2.3-2.2	1				
(con¹t	next page)	2.1 and	Under				
		Below	1				



## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 4 (Contd)

READING		SPEL	LING		ARTTHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	<u>Percentile</u>		
4.7	24				•		
4.6	22						
4.5	20						
4.4	19						
4.3	17						
4.2	16						
4.1	13						
4.0	11						
3.9	9						
3.8	7						
3.7	4						
<b>3.</b> 6	2						
<b>3.</b> 5	1				•		
3.4 and	Under						
Below	1						



## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPEL	SPELLING		ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
12.3-12.1	99	10.1-10.0	99	7.7	99		
12.0-11.8	98	9.9- 9.8	98	7.5	<b>9</b> 8		
11.7-11.5	97	9.7	97	7.5	97		
11.4-11.2	96	9.6- 9.5	96	7.4	<b>9</b> 6		
11.1-11.0	95	9.4	95	7 <b>.3</b>	94		
10.9-10.8	94	9.3- 9.2	94	7.2	92		
10.7-10.6	93	9.1	<b>93</b>	7.1	8 <b>9</b>		
10.5-10.3	92	9.0	92	7.0	88		
10.2-10.1	91	8.9- 8.8	91	6.9	87		
10.0- 9.9	<b>9</b> 0	8.7	90	6.8	86		
9.8- 9.7	8 <b>9</b>	8.6- 8.5	89	6.7	85		
9.6	88	8.4	88	6.5	84		
9.5- 9.4	87	8.3- 8.2	87	6.5	82		
9.3	85	8.1	86	6.4	81		
9.2	84	8.0	8 <b>5</b>	6 <b>.3</b>	80		
9.1	<b>B2</b>	7.9- 7.8	84	6.2	<b>7</b> 9		
9.0	80	7,7	83	6.1	78		
8.9	78	7.6	82	6.0	77		
8.8- 8.6	75	7.5 <b>-</b> 7.4	81	5.9	75		
8.5- 8.3	74	7 <b>.3</b>	80	5.8	68		
8.2- 8.0	73	7.2- 7.1	79	5.7	61		
7 <b>.9-</b> 7.8	72	7.0	78	5.6	55		
7.7	70	6.9	<b>7</b> 6	5.5	52		
7.6	67	6.8	75	5.4	50		
7.5	<b>6</b> 6	6.7	74	5.3	48		
7.4	6 <b>3</b>	5.6	72	5.2	42		
7.3	61	6.5	69	5.1	<b>3</b> 5		
7.2	<b>5</b> 8	6.4	67	5.0	27		
7.1	<b>5</b> 5	6.3	64	4.9	24		
<b>7.</b> 0	<b>5</b> 1	6.2	61	4.8	20		
6.9	47	6.1	<b>5</b> 8	4.7	17		
6.8	44	6.0	55	4.6	14		
6.7	42	5.9	52	4.5	10		
6.6	40	5.8	48	4.4	6		
6.5	<b>3</b> 8	5.7	45	4.3	<b>5</b> 3		
6.4	<b>3</b> 6	5.6	41	4.2	3		
6 <b>.3</b>	34	5.5	<b>3</b> 8	4.1	1		
6.2	33	5.4	34	4.0 and	Under		
6.1	<b>3</b> 2	5.3	31	Below	1		
6.0	<b>3</b> 1	5.2	28				
5.9	<b>3</b> 0	5,1	24				
<b>5.</b> 8	<b>2</b> 9	5.0	21				
5.7	<b>2</b> 8	4.9	18				
5.6	27	4.8	14				
5.5	26	4.7	11				
5.4	25	4.6- 4.4	6				
5.3	24	4.3- 4.2	5				

Gr. Score Percentile

## END-YEAR AT NORMS

## WRAT - MANDOM SAMPLING

## Local Percentiles

## GRADE 9 (Contd)

READING					
Gr. Score	Percantile				
5.2	27				
5.1	20				
<b>5.</b> 0	18				
4.9	15				
4.8	13				
4.7	12				
4.6	10				
4.5	8				
4.4	6				
4.3	5				
4.2	3				
4.1	1				
4.0 and	Under				
881aW	1				

SPELLING						
Gr. Score	Percentile					
4.1-3.9	4					
3.8-3.7	3					
<b>3.</b> 6	ì					
3.5 and	Under					
Below	1					

## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPEL	LING	ARITH	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
16.3-14.7	99	10.2-10.1	99	8.8-8.5	99		
14.6-13.2	98	10.0	98	8.4- 8.2	98		
13.1-11.7	97	<b>9.9- 9.8</b>	97	8.1- 8.0	97		
11.6-10.7	96	9.7	96	7.9- 7.8	96		
10.6-10.4	95	9.6	<b>9</b> 5	7.7	95		
10.3-10.2	94	9.5	93	7.6	93		
10.1- 9.9	93	9.4	92	7.5	92		
9.8- 9.7	<b>92</b> ,	9.3	90	7.4	90		
9.6	91	9.2	89	7.3	89		
9.5	90	9.1	88	7.2	86		
9.4- 9.3	89	9.0- 8.9	87	7.1	83		
9.2	88	8.8	86	7.0	80		
9.1- 9.0	87	8.7- 8.6	85	6.9	77		
8.9- 8.8	86	8.5	84	6.8	75		
8.7	<b>6</b> 5	8.4	83	6.7	71		
8.6	84	8.3- 8.2	82	6.6	68		
8.5- 8.4	83	8.1	80	6.5	6 <b>4</b>		
8.3	82	8.0	79	6.4	60		
8.2	<b>7</b> 8	7.9	77	6.3	57		
8.1	73	<b>7.</b> 8	76	6.2	<b>5</b> 5		
8.0	68	7.7	75	6.1	<b>53</b>		
7.9	62	7.6	73	6.0	50		
7.8	5 <b>7</b>	7.5	72	5.9	<b>4</b> 8		
7.7	<b>5</b> 5	7.4	70	5.8	<b>4</b> 6		
7.6	54	7.3	69	<b>5.</b> 7	<b>4</b> 5		
7.5	<b>5</b> 3	7.2	67	5.6	<b>43</b>		
7.4	51	7.1	6 <b>5</b>	5.5	<b>42</b>		
7.3	50	7.0	<b>63</b>	5.4	40		
7.2	48	6.9	61	5.3	<b>3</b> 9		
7.1	<b>4</b> 6	6.8	59	5.2	36		
7.0	43	6.7	57	5.1			
6.9	41	6.6	56	<b>5.</b> 0	33 31		
6.8	<b>3</b> 9	6.5	5 <b>4</b>		31		
6.7	<b>3</b> 7	6.4	5 <b>3</b>	4.9	28 25		
6.6	36	6.3	51	4.8	25 33		
6.5	<b>3</b> 4	6.2	50	4.7	22		
6.4	32 ·	6.1	49	4.6	20		
6.3	<b>3</b> 0	6.0		4.5	17		
6.2	<b>2</b> 8	<b>5.9- 5.</b> 8	48	4.4	14		
	<b>2</b> 6		47	4.3	7		
6.1		<b>5.</b> 7	46	4.2	6 5		
6.0	24	<b>5.</b> 6	44	4.1	5		
5.9	23 21	<b>5.</b> 5	<b>42</b>	4.0	4		
<b>5.</b> 8	21	5.4	40	3.9	3 2 1		
5.7	20	5.3	<b>3</b> 7	3.8	2		
5.6	18	5.2	35	3.7			
5.5	17	5.1	32	3.6 and	Under		
5.4	15	5.0	28	Below	1		



## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 6 (Contd)

READING_		CHEL	LING	ARITH	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
5.3	14	4.9	24				
5.2	13	4.8	20				
5.1	11	4.7	17				
5.0	10	<b>4.</b> 6	14				
4.9	9	4.5	12				
4.8	7	4.4	10				
4.7	6	4.3	7				
4.6	5	4.2	5				
4 <i>。</i> 5	4	4.1	2				
4.4	3	4.0	1		••		
4.3	2	3.9 and	Under				
4.2	1	Below	1				
4.1 and	Under						
Below	1						



413

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ	ING	SPEL	LING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
18.6-18.4	99	12.3-12.2	99	13.3-13.2	99
18.3-18.2	98	12.1	98	13.1-13.0	98
18.1	97	12.0	97	12.9	97
18.0-17.9	96	11.9	95	12.8-12.6	<b>9</b> 6
17.8-17.7	95	11.8	94	12.5-12.3	95
17.6-17.5	94	11.7	93	12.2-11.9	94
17.4-17.3	93	11.6	92	11.8-11.5	93
17.2-17.1	92	11.5	91	11.4-11.3	92
17.0-16.8	91	11.4	90	11.2	91
16.7-16.5	90	11.3	88	11.1-11.0	90
16.4-16.2	89	11.2	87	10.9	8 <b>9</b>
16.1-15.9	88	11.1	86	10.8-10.7	88
15.9-15.6	87	11.0	85	10.6	87
15.5-15.3	<b>8</b> 6	10.9	84	10.5-10.4	86
15.2-15.1	85	10.8	8 <b>3</b>	10.3	85
15.0	84	10.7	82	10.2	84
14.9	8 <b>3</b>	10.6	80	10.1-10.0	8 <b>3</b>
14.8	82	10.5	79	9.9	82
14.7	81	10.4	78	9.8- 9.7	81
14.6	79	10.3	77	9.6- 9.5	80
14.5	78	10.2	76	9.4- 9.2	7 <b>9</b>
14.4-14.3	70 77	10.1	75	9.4- 9.2	
14.2-14.1	7 <i>6</i>	10.0	74		78 77
				8.8	77 75
14.0-13.9	75 74	9.9	7 <b>3</b>	8.7	75
13.8-13.7	74	9.8	72	8.6	73
13.6-13.5	7 <b>3</b>	9.7	71 70	8.5	71
13.4	72	9.6	70	8.4	69
13.3-13.2	71	9.5	68 68	8.3	66
13.1-13.0	70	9.4	67	8.2	64
12.9	69	9.3- 9.2	66 65	8.1	62
12.8	68 6 <b>8</b>	9.1	65	8.0	60 5 <b>5</b>
12.7	67	9.0	64	7.9	<b>57</b>
12.6	66	8.9- 8.8	6 <b>3</b>	7.8	<b>55</b>
12.5	65 6 <b>7</b>	8.7	62	7.7	54
12.4	6 <b>3</b>	8.6	61	7.6	52
12.3-11.9	62	8.5- 8.4	60 	7.5	51
11.8-11.3	61	8.3	<b>59</b>	7.4	50
11.2-10.7	60	8.2	58	7.3	48
10.6-10.2	59	8.1- 8.0	57	7.2	<b>4</b> 5
10.1	57	7.9	56	7.1	42
10.0	56	7.8	55	7.0	<b>3</b> 9
<b>9.</b> 9	54	7.7	54	6 <b>.9</b>	<b>3</b> 6
9.8	5 <b>3</b>	7.6	52	<b>6.8</b>	33
9.7	51	7.5	51	6.7	31
9.6	49	7.4	49	6.6	29
9.5	48	7.3	48	6.5	27
9.4	47	7.2	46	6.4	24

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 7 (Contd)

READING		SPEL	LIN <b>G</b>	ARITH	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
9.3	<b>4</b> 6	7.1	44	6.3	22		
9.2- 9.1	45	7.0	41	6 <b>.2</b>	21		
9.0	44	6.9	39	6.1	19		
8.9	<b>4</b> 3	6,8	37	6.0	17		
8.8	42	6.7	33	5 <b>.9</b>	16		
8.7	41	6.6	28	5.8	15		
8.6- 8.5	40	6 <b>.5</b>	24	5.7	13		
8.4	39	6 <b>.4</b>	19	5.6	12		
8.3	38	6 <b>.3</b>	14	<b>5.</b> 5	10		
8,2-8.1	37	6.2	13	5.4	8		
8,0	34	6.1	11	5.3	7		
7.9	32	6 <b>.0</b>	10	5.2	5 <b>2</b>		
<b>7.</b> 8	30	5.9	8	5.1			
7.7	28	5.8	7	5,0	1		
7.6	26	<b>5.7- 5.</b> 6	6	4,9 and	Under		
7.5	2 <b>4</b>	5.5	5	Below	1		
7.4	22	5.4	4				
7.3	21	5.3- 5.2	3				
7.2	20	5.1 <b>-</b> 5.0	2				
7.1	18	4.9- 4.7	1				
7.0	17	<b>4.</b> 6- an <b>d</b>	Under				
6.9	16	Below	1				
6.8	15						
6.7	14						
6.6	1.3						
6 <b>.5</b>	11						
6.4	10						
6.3	8						
6.2	7						
6.1	5						
6.0 <b>- 5.</b> 8	3						
5 <b>.7- 5.</b> 6	2						
5.5- 5.3	1						

Under

1

5.2 and

Below

## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPEL	LING	ARITH	ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Parcentile		
17.1-16.7	99	13.0-12.9	99	13.1-13.0	99		
16.6-16.1	98	12.8	98	12.9	98		
16.0-15.6	97	12.7	97	12.8-12.7	97		
15.5-15.0	96	12.6-12.5	96	12.6	93		
14.9	<b>9</b> 5	12.4-12.3	<b>9</b> 5	12.5	94		
14.8-14.7	94	12.2-12.1	94	12.4	93		
14.6-14.5	93	12.0-11.8	93	12.3	<b>91</b>		
14.4-14.3	92	11.7-11.5	92	12.2	89		
14.2	91	11.4	91	12.1	88		
14.1	<b>9</b> 0	11.3	<b>9</b> 0	12.0-11.6	87		
14.0-13.9	6 <b>ö</b>	11.2	8 <b>9</b>	11.5-11.1	86		
13.8	88	11.1-11.0	88	11.0-10.6	8 <b>5</b>		
13.7-13.6	87	10.9	86	10.5-10.1	84		
13.5	86	10.8	84	1.0.0	81		
13.4-13.3	<b>8</b> 5	10.7	<b>8</b> 3	9.9	78		
13.2	84	10.6	81	9.8	75		
13.1-13.0	83	<b>10.</b> 5	80	9.7	72		
12.9	82	10.4	77	9.6	68		
12.8-12.7	81	10.3	73	9.5	66		
12.6-12.5	80	10.2	70	9.4	65		
12.4	<b>7</b> 9	10.1	67	9.3	63		
12.3-12.2	78	10.0	64	9.2	61		
12.1	77	9.9	61	9.1	60		
12.0	76	9.8	5 <b>7</b>	9.0	59		
11.9	<b>7</b> 5	9.7	5 <b>4</b>	8.9	58		
11.8	74	9.6	<b>51</b>	8 <b>.8</b>	<b>57</b>		
11.7	73	9.5	48	8.7 <b>- 8.</b> 6	56		
11.6	72	9.4	47	8 <b>.5</b>	52		
11.5	71	9.3	46	8.4	<b>4</b> 9		
11,4	70	9.2	<b>4</b> 5	8.3	46		
11.3	69	9.1- 9.0	44	8.2	43		
11.2	68	8.9	41	8.1	40		
11.1	67	8.8	37	8.0	36		
11.0	66	8.7	34	7.9	3 <b>3</b>		
10.9	65	8.6	31	<b>7.</b> 8	30		
10.8	64	8.5	<b>2</b> 8	7.7	27		
10.7	62	8.4	25	7.6	24		
10.6	61	8 <b>.3</b>	23	7.5	21		
<b>10.</b> 5	60	8.2	21	7.4	19		
10.4	59	8.1	18	7.3	16		
10.3	58	8.0	16	7.2	14		
10.2	5 <b>7</b>	7.9	<b>1</b> 5	7.1	12		
10.1	56	<b>7.</b> 8	14	7.0	10		
<b>10.</b> 0	54	7.7	13	6 <b>.</b> 9	8		
9.9	52	7.6- 7.5	12	6.8	6		
9.8	51	7.4- 7.3	11	6.7	6 4 2		
9.7	49	7.2- 7.0	10	6.6	2		

Percentile

Under

. 1

ARITHMETIC

## END-YEAR .7 NORMS

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 3 (Contd)

READ	ING		SPEL	LING	ARITH
	Percentile		Gr. Score	Percentile	Gr. Score
9.6	47		6.9- 6.8	9	6.5
9.5	<b>4</b> 6		6.7- 6.5	8	6.4 and
9.4	44		6.4	6	. Below
9.3	42		<b>6.3</b>	4	
9.2	41		6.2	3	
9.1	40		6.1	1	
9.0	<b>3</b> 9		6.0 and	Under	
8.9	38		Below	1	
8,8	37				
8.7	<b>3</b> 6				
8,6	33				
8,5	<b>3</b> 0				
8.4	28				
8.3	25				
8.2	21				
8.1	19				
8.0	16				
7.9- 7.7	15		•		
7.6- 7.3	14				
7.2- 7.0	13				
6.9- 6.6	12				
6.5	11	•	'		·
6.4- 6.3	10				
6.2- 6.1	9	•			
6.0- 5.9	8				•
5.8	7				
5.7- 5.6	6			•	
5.5- 5.4	5		,		
5.3- 5.2	4 3		•	•	
5.1- 5.0					
4.9	2		•	•	•



4.8- 4.7

4,6 and

Below

1

Under

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ			LING	ARITH	METIC
<u>Gr. Score</u>	<u>Percentile</u>	<u>Gr. Score</u>	<u>Percentile</u>	Gr. Score	Percentile
16.2-16.1	99	13.2-13.1	99	14.7-14.6	99
16.0	<b>9</b> 8	13.0-12.9	<del>9</del> 8	14.5-14.4	· 98
15.9-15.8	97	12.8	97	14.3-14.2	97
15.7	<sup>,</sup> 96	12.7	<b>9</b> 6	14.1-14.0	96
15.6	<b>9</b> 5	12.6	<b>9</b> 5	13.9-13.8	95
15.5-15.4	94	12.5	93	13.7-13.6	94
15.3	93	12.4	92	13.5-13.4	93
15.2	92	12.3	91	13.3-13.2	92
15.1-15.0	91	12.2	89	13.1-13.0	91
14.9-14.8	90	12.1	88	12.9-12.8	90
14.7-14.6	89	12.0-11.9	87	12.7-12.6	89
14.5-14.2	88	11.8	86	12.5-12.4	88
14.1-13.8	87	11.7	85	12.3-12.2	87
13.7-13.4	86	11.6	83	12.1-12.0	86
13.3-13.2	85	11.5	81	11.9-11.7	85
13.1	82	11,4	79	11.6-11.5	84
13.0	80	11.3	77	11.4-11.3	83
12.9	77	11.2	75	11.4-11.3	82
12.8	74	11.1	73	11.1	81
12.7	71	11.0	70 70		80
12.6-12.5	70	10.9	68	11.0	
12.4	69		66	10.9	79 70
12.3-12.2	68	10.8		10.8	78
12.5-12.2	67	10.7	6 <b>4</b>	10.7	77
	66	10.6	63	10,6	76
12.0		10.5-10.4	62	10.5	75
11.9-11.8	65	10.3	6 <b>1</b>	10.4	74
11.7	64	10.2	6 <b>0</b>	10.3-10.2	72
11.6	63	10.1	57 - <b>7</b>	10.1	71
11.5-11.4	62	10.0	5 <b>3</b>	10.0	69
11.3	61	9.9	50	9.9	68
11.2	60	9.8	46	9.8- 9.7	67
11.1-11.0	5 <b>9</b>	9.7	42	9.6- 9.5	66
10.9	58	9.6- 9.5	41	9.4- 9.3	65
10.8-10.7	57	9.4	40	9.2- 9.1	64
10.6	56 	9.3- 9.2	<b>3</b> 9	9.0	63
10.5	<b>55</b>	9.1	38	8 <b>.</b> 9	62
10.4-10.3	54	9.0	36	8.8	61
10.2	5 <b>3</b>	8.9	<b>3</b> 5	8.7	60
10.1	51	8.8	33	8.6	59
10.0	49	8.7	32	8.5	58
9.9	47	8.6	30	8.4	57
9.8	45	8.5	28	8.3	56
9.7	42	8.4	27	8.2	52
9.6	40	8.3	25	8.1	49
<b>9.</b> 5	38	8.2	23	8.0	47
9.4	36	8.1	21	7.9	44
9.3	34	8.0	20	7.8	41



## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 9 (Contd)

RE	ADING		SPELLING		ARITH	METIC
Gr. Scor		2	Gr. Score	Percentile	Gr. Score	Percentile
9.	2 32		7.9- 7.8	19	7.7	39
9.			7.7	18	7.6	<b>3</b> 6
9.			7.6	17	7.5	34
8.			7.5- 7.4	16	7.4	31
8.			7.3	15	7.3	29
8.	7 21		7.2	14	7.2	26
8.			7.1	12	7.1	24
8.	5 19		7.0	10	7.0	21
8.			6.9	8	6.9	20
8.3- 8.	2 17	•	6.8	6	6.8	18
8.	1 16		6.7	4	6.7	17
8.			6.6	2	6.6	15
7.			6.5	1	6.5	14
7.			6.4 and	Under	6.4	12
7.			Below	1	6 <b>.3</b>	10
7.					6.2	9
7.					6.1	<b>8</b> 6
7.4- 7.					6.0	б
. 7.					5.9	5 4
7.	•	•			5.8	4
7.		:		•	5.7	2
6.					5.6	1
6.					5.5 and	Under
6.7- 6.					Below	1
6.						•
6.4- 6.	2 1					
6.1 an	d Under		,			
Below	1					

## WRAT - RANDOM SAMPLING

## Local Percentiles

READING		SPEL	SPELLING		ARITHMETIC		
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile		
18.4	99	14.7-14.4	99	12.7-12.6	99		
18.3	98	14.3-13.9	98	12.5	98		
18.2	97	13.8-13.6	97	12.4-12.3	97		
18.1	<b>9</b> 6	13.5-13.3	96	12.2	<b>9</b> 6		
18.0	95	13.2-13.1	<b>9</b> 5	12.1	94		
17.9	93	13.0-12.9	94	12.0	93		
17.8	92	12.8-12.7	93	11.9	92		
17.7	91	. 12.6	<b>9</b> 2	11.8	90		
17.6	8 <b>9</b>	12.5	<b>9</b> 0	11.7	8 <b>9</b>		
17.5	88	12.4	87	11.6	87		
17.4	86	12.3	84	11.5	86		
17.3	85	12.2	82	11.4	84		
17.2	83	12.1	79	11.3	8 <b>3</b>		
17.1	82	12.0	76	11.2-11.1	81		
17.0	80	11.9	74	11.0-10.9	8 <b>0</b>		
16.9	<b>7</b> 9	11.8	72	10.8-10.6	79		
16.8	77	11.7	70	10.5-10.4	78		
16.7	75	11.6	<b>69</b>	10.3-10.2	77		
<b>1</b> 6.6	74	11.5	67	10.1	74		
16.5-16.4	73	11.4	66	10.0	<b>7</b> 2		
16.3-16.1	<b>7</b> 2	11.3	64	9.9	6 <b>9</b>		
16.0-15.9	. 71	11.2	62	9.8	66		
15.8-15.7	70	11.1	6 <b>1</b>	<b>9.7- 9.</b> 6	62		
15,6-15.4	69	11.0	59	9.5	6 <b>1</b>		
15.3-15.2	68	10.9	57	9.4- 9.3	60		
15.1-15.0	67	10.8	56	9.2	5 <b>9</b>		
14.9-14.8	66	10.7	54	9.1	57		
14.7	65	10.6	<b>53</b>	9.0	55		
14.6	6 <b>4</b>	10.5-10.4	5.1.	8 <b>.9</b>	5 <b>3</b>		
14.5	6 <b>3</b>	10.3-10.2	50	8.8	<b>51</b>		
14.4	6 <b>1</b>	10.1-10.0	49	8.7	48		
14.3	60	<b>9.9-</b> 9.8	48	8.6	<b>4</b> 6		
14.2	59	9.7	<b>4</b> 6	8.5	44		
14.1	<b>5</b> 8	<b>9.</b> 6	44	8.4	41		
14.0	<b>5</b> 6	<b>9.</b> 5	<b>42</b> .	8.3	39		
13.9	<b>5</b> 5	9.4	40	8.2- 8.1	<b>3</b> 6		
13.8	54	9.3	37	8.0	<b>3</b> 5		
13.7	53	<b>9.</b> 2	<b>3</b> 5	7.9	34		
13.6	52	9.1	33	7.8- 7.7	33		
<b>13.</b> 5	<b>5</b> 0	<b>9.0-</b> 8.9	32	7.6	30		
13.4	49	8.8-8.7	31	7.5	27		
13.3	48	8.6- 8.5	<b>3</b> 0	7.4	24		
<b>13.</b> 2	47	8.4	29	7.3	22		
13.1	45	8.3	27	7.2	18		
13.0	44	8.2	25	7.1	17		
12.9	<b>4</b> 2.	8.1	22	7.0	<b>1</b> 5		
12.8	40	8.0	19	6 <b>.9</b>	14		



Percentile

12

11

9

5

3

1 Under

1

## END-YEAR .7 NORMS

## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 10 (Contd)

READ	ING	SPEL	LING	ARITH	METIC
Gr. Score		Gr. Score	Percentile	Gr. Score	Percen
12.7	38	7.9	17	6.8	12
12,6	<b>3</b> 6	7.8	14	6.7	11
12.5	34	7.7- 7.6	11	6.6	_ 9
12.4	32	7.5- 7. <b>3</b>	10	6.5	8
12.3	30	7.2- 7.0	9	6.4	$\epsilon$
12.2	<b>2</b> 8	6 <b>.9-</b> 6.6	8	6.3	5
12.1-12.0	<b>2</b> 5	6 <b>.5- 6.2</b>	7	6.2	3
11.9-11.7	24	6.1- 5.8	6	6.1	1
11.6-11.4	23	5.7- 5.5	5	6.0 and	Unc
11.3-11.2	22	5.4- <b>5.</b> 1	4	Below	]
11.1-10.9	21	5.9- 4.8	3		
10.8-10.7	20	4.7- 4.5	2		
10.6-10.5	19	4.4- 4.2	1		
10.4-10.2	18	4.1 and	Under		
10.1-10.0	17	Below	1		
9.9- 9.8	16				
9.7- 9.5	15				,
9.4- 9.0	14	•			
8.9- 8.5	13				
8.4- 8.0	12			•	
7.9- 7.6	11				
7.5- 7.3	10				
7.2- 7.1	9				
7.0- 6.9	8		•		
6.8- 6.6	7	•		·	
6.5- 6.4	6				
6.3- 6.2	5				•
6.1- 6.0	4				



5.9- 5.7 5.6- 5.5

5.4- 5.2 5.1 and

Below

1 Under

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ	ING	SPEL	LING	ARITH	METIC
Cr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
18.8-18.7	99	15.2-15.0	99	19.5-19.3	99
18.6	· 98	14.9-14.8	98	19.2-19.0	98
18.5	9 <b>7</b>	14.7	9 <b>7</b>	18.9-18.8	9 <b>7</b>
18.4	96	14.6-14.5	96	18.7-18.2	96
18.3	94	14.4-14.3	95	18.1-17.0	95
18.2	93	14.2-14.1	94	16.9-15.8	94
18.1	92	14.0-13.9	93	15.7-14.6	93
18.0	91	13.8	92	14.5-14.0	92
17.9	90	13.7	90	13.9	91
1 <b>7.</b> 8	89	13.6	89	13.8-13.7	90
17 <b>.7</b>	88	13.5	8 <b>7</b>	13.6-13.5	89
17.6	8 <b>7</b>	13.4	86	13.4	88
17.5	86	13.3	84	13.3-13.2	8 <b>7</b>
17.4	85	13.	83	13.1	86
17.3-17.2	84	13.1-13.0	81	13.0-12.9	85
17.1-17.0	83	12.9	80	12.8	84
16.9-16.8	8 <b>2</b>	12.8-12.7	<b>7</b> 9	12.7-12.6	83
16.7-16.5	81	12.6-12.5	<b>7</b> 8	12.5-12.4	82
16.4-16.2	80	12.4	<b>7</b> 7	12.3	81
16.1-15.9	79	12.3	74	12.2	80
15.8-15.5	<b>7</b> 8	12.2	71	12.1	<b>7</b> 9
15.4-15.3	<b>7</b> 7	12.1	68	12.0	<b>7</b> 8
15.2	75	12.0	65	11.9	<b>7</b> 6
15.1	<i>'</i> 72	11.9	62	11.8	<b>7</b> 5
15.0	70	11.8	58	11.7	74
14.9	67	11.7	55	11.6	<b>7</b> 2
14.8	64	11.6	54	11.5	71
14.7	62	11.5	53	11.4	
14.6	59	11.4		11.3	
14.5-14.4		11.3		11.2-11.3	
14.3.14.2		11.2		11.0	
14.1-14.0		11,1		10.9	
13.9-13.8		11.0	48	10.8	
13.7	54	10.9-10.8	47	10.7	64
13.6-13.5		10.7-10.6		10.6-10.5	
13.4-13.3		10.5-10.4		10.4	
13.2-13.1	51	10.3	44	10.3	61
13.0-12.9		10.2-10.1		10.2	
12.8-12.7		10.0- 9.9		10.1-10.0	
12.6-12.5	48	9.8- 9.7	41	9.9	58
12.4		9.6	40	9.8	<b>57</b>
12.3-12.2	46	9.5	<b>3</b> 8	9.7	56
12.1-12.0	45	9.4	37	9.6	55 55
11.9-11.8		9.3	35	9.5- 9.4	
11.7-11.6	<b>4</b> 3	9.2	34	9.3	
11.5-11.4	42	9.1	32	9.2	52
11.3-11.2	41	9.0	31	9.1	51
	T adu	<b>&gt;.</b> 0		<b>7.1</b> ±	<b>-</b>



## WRAT - RANDOM SAMPLING

## Local Percentiles

## GRADE 11 (Contd)

READING		SPEL	SPELLING		ARITHMETIC	
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile	
11.1-11.0	40	8.9	29	9.0	50	
10.9-10.8	39	8.8- 8.7	28	8 <b>.9-</b> 8.8	<b>4</b> 9	
10.7-10.6	38	8.6- 8.5	27	8.7	48	
10.5-10.4	37	8.4- 8.3	26	8.6	47	
10.3	35	8.2	25	8.5	46	
10.2	34	8.1	24	8.4- 8.3	45	
10.1	33	8.0	23	8,2	44	
10.0	<b>3</b> 2	7.9	22	8.1	43	
9.9	31	7.8	21	8.0	42	
9.8	30	7.7	20	7.9	41	
9.7	29	7.6	19	7.8	40	
9.6	28 ·	7.5	18	7.7	<b>3</b> 8	
9.5	27	7.4	17	7.6	37	
9.4	<b>2</b> 6	7.3	16	7.5	<b>3</b> 5	
9.3	25	7.2	15	7.4	· 33	
9.2	24	7.1	14	7.3	<b>3</b> 2	
9.1	23	<b>7</b> .0	13	7.2	<b>3</b> 0	
9.0	22	6.9	12	7.1	29	
8.9- 8.8	21	6,8	11	7.0	27	
8.7- 8.6	20	6.7- 6.6	10	6 <b>.9</b>	25	
8.5- 8.4	19	6.5- 6.4	9	6.8	<b>23</b>	
8.3- 8.2	18	<b>6.3</b>	8	6,7	20	
8.1- 8.0	17	6.2- 6.1	7	<b>6.</b> 6	17	
<b>7.</b> 9	16	6 <b>.0</b>	6	6.5	14	
7.8- 7.7	15	5•9	4	6.4	11	
7.6- 7.5	14	5.8	3	<b>6.3</b>	3	
7.4- 7.3	13	5.7	2	6.2	5	
7.2- 7.1	12	5.6	1	6.1	2	
7.0- 6.9	11	5.5 and	Under	6.0	1	
6 <b>.8</b>	10	Below	1 .	5.9 and	Under	
6.7	9			Below	1	
6.6	8		•			
6.5	7					
6.4	6					
6,3	5				•	
6.2- 6.1	3				•	
6.0- 5.9	2					
5.8- 5.7	1					

Under

## WRAT - RANDOM SAMPLING

## Local Percentiles

READ	ING	SPEL	LING	ARITH	METIC
Gr. Score	Percentile	Gr. Score	Percentile	Gr. Score	Percentile
18.4	99	16.7-16.2	99	13.4-13.2	99
18.3	98	16.1-15.7	98	<b>13.1-12.</b> 9	<b>9</b> 8
18.2	. 96	15.6-15.2	97	12.8-12.7	
18.1	95	15.1-14.7	96	12.6-12.4	96
18.0	93	14.6-14.5	95	12,3	94
17.9	92	14.4-14.2	9 <b>4</b>	12.2	
17.8	9Ú	14.1-14.0	93	12.1	91
17.7-17.6	88	13.9-13.7	92	12.0	89
17.5-17.4	87	13.6	91.	11.9	88
17.3-17.2	8ú	13.5	90	11.8	87
17.1-17.0	85	13.4	89	11.7	86
16.9-16.8	84	13.3-13.2	88	11.6-11.5	<b>8</b> 5
16.7-16.6	83	13.1	87	11.4	84
16.5	82	13.0	86	11.3	82
16.4-16.3	81	12.9	85	11.2	80
16.2	80 80	12.8-12.7	8 <b>4</b>	11.1	7 <b>9</b>
10.2	78	12.0-12.7	82	11.0	77
16.0	77	12.5	80	10.9	
15.9	7.7 75	12.4	79	10.8	74
15.8	75 74	12.3	77	10.7	73
	74 72	12.2	76	10.6	
15.7	70	12.1	74	1 <b>0.</b> 5	70
15.6-15.4	69	12.U	73	10.4	68
15.3-15.1		11.9	7.1	10.3	65
15.0-14.7	68 7 22			10.2	6 <b>3</b>
14.6-14.4	t:7	11.8	69 68	10.1	81
14.3-14.1		11.7			5 <b>8</b>
14.0	65	11.6	66 CE	10.0	
13.9-13.8	ti4	11.5		<b>9.</b> 9	
13.7-13.6	63	11.4		9.8	
13,5	6 <b>2</b>	11.3		9.7	
13.4	61	11.2	60	9.6	
1 <b>3.</b> 3	60 	11.1	57	9.5	
13.2	59	11.0	5 <b>4</b>	9.4	
13.1	58	10.9		9.3- 9.2	43
13.0	57	10.8	47	9.1- 8.9	
1 <b>2.</b> 9	56	10.7		8.8- 8.7	
12.8	55	10.6	42	8.6- 8.4	
12.7	5 <b>4</b>	10.5		8.3	
12.6	53	10.4		8.2	
1 <b>2.</b> 5		10.3		8.1	
12.4	50	10.2		8.0	
12.3	. 48	10.1		7.9	
1 <b>2.</b> 2		10.0		7.8	
12.1		9.9		7.7	
12.0		9.8		7.6	
11.9	43	9.7		7.5- 7.4	
11.8	42	9.6	<b>2</b> 7	7.3	<b>2</b> 5



Percentile

21

18

15

12

8 5

2

l Under

1

## END-YEAR .7 NCRMS

## WRAT - RANDOM SAMPLING

## Local Fercentiles

## GRADE 12 (Contd)

READ	ING '		LING		METIC
Gr. Score	Percentile	Gr. Score		Gr. Score	Perce
11.7	41	9.5	26	7.2	2
11.6	39	9.4	25	7.1	1
11.5	38	9.3- 9.2	24	7.0	1
11.4	<b>3</b> 7	9.1	23	6.9	13
11.3	<b>3</b> 6	9.0	22	6.8	
11.2	<b>3</b> 5	8.9	21	6.7	I
11.1	34	8.8- 8.7	20	6.6	
11.0	33	8.6	19	6.5	
<b>10.</b> 9	32	8.5	18	6.4 and	Un
10.8	31	8.4	17	Below	,
10.7	29	8.3- 8.2	16		
10.6	28	8.1	15		
10.5-10.4	27	8.0	14		
10.3	26	7.9	13		
10.2	25	7.8- 7.7	12		
10.1	24	7.6	11		
10.0- 9.9	23	7.5	10		
9.8	22	7.4	9		
9.7	21	7.3- 7.2	8		
9.6- 9.5	20	7.1	7	•	
9.4	19	7.0	5		
9 <b>.3</b>	18	6.9	4		
9.2	17	6.8	3		
9.1	16	<b>6.</b> 7	2		
9.0	<b>15</b> ,	6.6	1		
8.9	14	6 <b>.</b> 5 <b>and</b>	Under		
8.8	· 13	Below	1		
8.7	12	•		•	
8.6- 8.5	11				
8.4	10				
8.3- 8.2	9	•	,		
8.1- 8.0	8				
7.9- 7.8	7				
7.7- 7.6	6				
7.5- 7.4	5			*	
7.3	4				
7.2- 7.1	3			•	
7.0- 6.9	2				
6.8- 6.7	1				

Under

6.6 and Below APPENDIX

ERIC Trull fact Provided by ERIC

<u>APPENDIX</u>

## GEOGRAPHIC CHARACTERISTICS

TOWN	SQUARE MILES OF AREA	MILES OF PAVED STATE ROADS	MILES OF PAVED TOWN ROADS	MILES OF UNIMPROVED ROADS	PRINCIPAL INDUSTRIES
Barkhamsted	38.9	27.50	<b>3</b> 6.49	1.14	Agriculture
Colebrook	<b>33.</b> 5	16.42	29.44	10.94	Agriculture
<u>Hartland</u>	<b>33.</b> 7	23.80	22.50	.26	Agriculture
New Hartford	37.4	19.49	52 <b>.3</b> 5	15 <b>.3</b> 8	Agriculture, Small Manufacturing
Norfolk	46.0	18.37	40.14	15.57	Agriculture, Summer Resort
Winchester	36.0	2 <b>3.</b> 16	69.89	12.56	Small Manufacture

The above data obtained from The Connecticut State Highway Department, and/or The Town Clerk, 1st Selectman, or Street Department Superintendent of the involved Towns.

#### FUNDING DATA FOR PUBLIC EDUCATION IN THE SIX TOWN REGION

TOWN	NET GRAND LIST OCT. 1, 1964	INDEBTEDNESS JAN. 1,1965	POPULATION ESTIMATE	PER PUPIL COST (INC. TRANS.)	PER PUPIL TRANS.COST
Barkhanisted	<b>\$ 3,</b> 992,810	\$ 150,000	1,700	\$ 576 <b>.</b> 11	\$ 47.66
Colebrook	4,290,281	10,000	830	524.32	45.60
Hartland 	4,206, <b>3</b> 85	160,000	1,100	529.65	68 <b>.3</b> 6
New Hartford	13,269,250	205,000	3,300	529.65	32.75
Norfolk	7,919,907	180,000	1,900	578.31	33.51
Win <b>ch</b> ester City of Winsted	<b>39,3</b> 75,850 28,992,720	1,519,000 1,793,000	11,000	460.17	15,64

Data for this chart from Register and Manual, Connecticut, 1965.



APPENDIX

# DISTRIBUTION OF STAFF AND PUPIL POPULATION IN THE SIX TOWNS COVERED

	TOTAL STAFF	ELEMENTARY PUPILS	SECONDARY PUPILS	TOTAL PUPILS
Public School	152	3,132	1,171	4,303
Nonpublic School	54	479	603	1,082
Total	206	3,611	1,774	5 <b>,3</b> 85

